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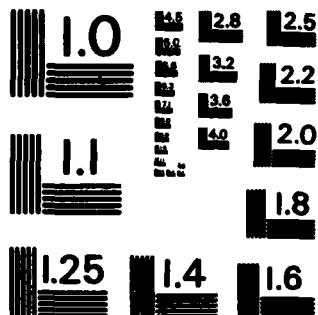
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The image displays a 10x10 grid of squares. The top-left square (row 1, column 1) contains a small, dark image of a book cover. The book cover has white text that reads: "The Journal of the Royal Society of Medicine", "Volume 100", "Number 1", "January 2007", and "ISSN 0959-6618". The remaining 99 squares in the grid are empty.



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

SP 3-P(84)

NAVAL OCEANOGRAPHIC OFFICE SPECIAL PUBLICATION

13

# Catalog of

## NAVAL OCEANOGRAPHIC OFFICE UNCLASSIFIED PUBLICATIONS

AD-A147 925

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## INTRODUCTION

This catalog lists unclassified official Naval Oceanographic Office publications available to government agencies and the public. These publications were prepared to support the mission of the U.S. Navy.

Publications are listed by major categories: (I) Naval Oceanographic Office Publications (NOP); (II) Special Publications (SP); (III) Technical Reports (TR); and (IV) Reference Publications (RP). Items are arranged in numerical order and each includes a brief abstract. Listed publications are also cross-indexed by author and subject.

## ORDERING PROCEDURES

Department of Defense activities, other government agencies, contractors, and grantees may order publications by letters, message, or requisition form signed by a cognizant officer (Commanding Officer, Navigator, Intelligence Officer, or authorized designee). Certain publications may be obtained over-the-counter at the Defense Mapping Agency (DMA) sales office located in Brookmont, MD. Publications are supplied on an official issue basis with no reimbursement required. Those publications available from DMA are annotated with the symbol \*. All requests should be forwarded per instructions contained in DMA publication 1-N-A or to:

DMA Office of Distribution Services  
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Washington, DC 20315

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Autovon - 287-2495

In addition to current publications, out-of-print or obsolete publications listed in this catalog and preceded by the symbol # can be obtained at cost by agencies or others registered with DTIC from:

Defense Technical Information Center  
Defense Logistics Agency  
Cameron Station  
Alexandria, VA 22314

Publications are supplied as hard copy or microfiche at cost of reproduction. The search control number (e.g., AD 613 615) should be included in the order.

Publications which are listed with a Distribution Unlimited statement and have a search control number (e.g., AD 613 615) are available to the general public. These publications may be obtained from:

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U.S. Department of Commerce  
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Springfield, VA 22116

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Inquiries may be directed to the Naval Oceanographic Office for additional information about the listings in this catalog. Telephone: Autovon - 484-4015; FTS - 495-4015; Commercial - (601) 688-4015.

LISTING OF  
PUBLICATIONS

--I--

NAVAL OCEANOGRAPHIC OFFICE

PUBLICATIONS

(NOP)



# NOP 225

World Atlas of Sea Surface Temperature. 2D ED., 1944,  
Reprinted 1954, 1974, 44P.  
AD A058 419

World monthly charts of sea surface temperatures prepared  
from data collected by NAVOCEANO and other sources.  
Isotherm intervals of 5°F except 2.5°F in regions of small  
horizontal gradients.

Distribution Unlimited

NOP 234

Breakers and Surf, Principles in Forecasting. 1944,  
Reprinted 1958, 1975, 66P.

Distribution Unlimited

NOP 237

Refer to SP 1402-NP-7

Distribution Unlimited

NOP 601

Wind, Sea and Swell: Theory of relations for forecasting,  
1947, Reprint 1952, 1979, 44P.  
Sverdrup, H.U.  
Munk, W.H.

Describes forecast of sea and swell from weather data,  
character of waves, and fetch. A combination of theoretics  
and empirics is used.

Distribution Unlimited

# NOP 602

Wind Waves at Sea, Breakers and Surf, 1947,  
Reprint 1953, 1974, 177P.  
Bigelow, H.B.  
Edmondson, W.T.

A simple but comprehensive description of sea swell,  
their physical nature, dimensions, and contours; and of  
breakers and surf and their relation to bottom, shore, and  
meteorology.

Distribution Unlimited

# NOP 603

Practical Methods for Observing and Forecasting Ocean Waves by Means of Wave Spectra and Statistics, 1955, Reprinted 1960, 1967, 1971, 284 P.

AD 739 935

James, R. W.

Neumann, G.

Pierson, Jr. W.J.

Compendium of facts and theories concerning ocean waves based on research in Britain and the United States. Describes basic concepts and techniques of the first major attempt to apply wave research to wave forecasting.

Distribution Unlimited

NOP 604

Techniques for Forecasting Wind Waves and Swell 1955, Reprinted 1963, 1966, 45 P.

Provides formulas and graphs for deepwater prediction of sea and swell based on wind fetch and duration.

Distribution Unlimited

NOP 605

Graphical Construction of Wave Refraction Diagrams 1948, Reprinted 1968, 45 P.

Isaacs, J.D.

Johnson, J.W.

O'Brien, M.P.

Provides formulas and scales for construction of refraction diagrams by the wave front method using D and  $K_d$ , for constructing directly by orthogonals.

Distribution Unlimited

#\* NOP 606

Guide to Marine Observing and Reporting, by NAVOCEANO, USCG, NOAA, and DMAHC. 1977, 48 P.

3RD ED., 1968, Reprinted 1970, 1975, 223 P.

AD 672 850

Instruction manual for obtaining oceanographic data.

Distribution Unlimited

- # NOP 700      Oceanographic Atlas of the North Atlantic Ocean:  
- SEC I      Tides and Currents. 1965, Reprinted 1968, 1977, 79 P.  
AD 835 752

These atlases are compilations of published and unpublished oceanographic data for the North Atlantic Ocean.

Distribution Unlimited

- # NOP 700      -Physical Properties. 1967, 306 P.  
- SEC II      AD 658 219

These atlases compilations of published and unpublished oceanographic data for the North Atlantic Ocean.

Distribution Unlimited

- # NOP 700      -Ice. 1968, Reprinted 1976, 163 P.  
- SEC III      AD 846 816

These atlases are compilations of published and unpublished oceanographic data for the North Atlantic Ocean.

Distribution Unlimited

- # NOP 700      -Sea and Swell. 1963, reprinted 1969, 1970, 234 P.  
- SEC IV      AD 835 753

These atlases are compilations of published and unpublished oceanographic data for the North Atlantic Ocean.

- # NOP 700      -Marine Geology. 1965, reprinted 1970, 1975, 75 P.  
- SEC V      AD 625 861

These atlases are compilations of published and unpublished oceanographic data for the North Atlantic Ocean.

Distribution Unlimited

- # NOP 700      -Sound Velocity. 1967, reprinted 1974, 44 P.  
- SEC VI      AD 650 880

These atlases are compilations of published and unpublished oceanographic data for the North Atlantic Ocean.

Distribution Unlimited

NOP 705 PT. I Oceanographic Atlas of the Polar Seas, Antarctic.  
1957, Reprinted 1961, 70 P.

Compilations of published and unpublished Polar Oceanographic  
and Meteorological Data

Distribution Unlimited

# NOP 705 PT. II Arctic. 1958. Reprint 1968, 1970, 154 P.  
AD 708 701

Compilations of published and unpublished Polar Oceanographic  
and Meteorological Data.

Distribution Unlimited

NOP 752 Marine Geography of Korean Waters. 1951, 32 P.  
AD A950 781

Discusses elementary principles of interaction of environ-  
mental factors with mines and mine countermeasures. Covers  
bottom and moored mine movement, fouling, environmental  
effects on influence mines, minehunting, and diving  
operations. Bibliographies and Glossary included.

Distribution Unlimited

NOP 754 Marine Geography of Indochinese Waters. 1951, 38 P.  
AD A950 791

Discusses elementary principles of interaction of environ-  
mental factors with mines and mine countermeasures. Covers  
bottom and moored mine movement, fouling, environmental  
effects on influence mines, minehunting, and diving  
operations. Bibliographies and Glossary included.

Distribution Unlimited

NOP 755 Marine Geography of Formosan Waters. 1951, 45 P.  
AD A950 780

Discusses elementary principles of interaction of environ-  
mental factors with mines and mine countermeasures. Covers  
bottom and moored mine movement, fouling, environmental  
effects on influence mines, minehunting, and diving  
operations. Bibliographies and Glossary included.

Distribution Unlimited

NOP 757

Marine Geography of the Sea of Japan. 1951, 53 P.  
AD A950 793

Discusses elementary principles of interaction of environmental factors with mines and mine countermeasures. Covers bottom and moored mine movement, fouling, environmental effects on influence mines, minehunting, and diving operations. Bibliographies and Glossary included.

Distribution Unlimited

NOP 758

Marine Geography of the Sea of Okhotsk. 1952, 45 P.  
AD A950 792

Marine geography atlases contain monthly or seasonal charts of numerous oceanographic parameters.

Distribution Unlimited

# NOP 765

Application of Oceanography to Mine Warfare.  
AD 300 030

Discusses elementary principles of interaction of environmental factors with mines and mine countermeasures. Covers bottom and moored mine movement, fouling, environmental effects on influence mines, minehunting, and diving operations. Bibliographies and Glossary included.

Distribution Unlimited

NOP 799B

Atlas of Sea and Swell Charts - South Atlantic.  
1948, 12 P.  
AD A950 148

Sea and swell atlases show monthly, seasonal, or yearly charts, depending on data distribution. Winds, Sea, and Swell are shown monthly; persistence of waves and wave period-height and period-direction are presented seasonally.

Distribution Unlimited

NOP 799CE

-Northwest and Southwest Pacific Ocean. 1943, Reprinted  
1963, 1969, 1974, 1976, 12 P.  
AD A950 790

Sea and swell atlases show monthly, seasonal, or yearly charts, depending on data distribution. Winds, Sea, and Swell are shown monthly; persistence of waves and wave period-height and period-direction are presented seasonally.

Distribution Unlimited

- NOP 799D -Northeastern Pacific Ocean. 1944, Reprint 1974, 12 P.  
AD A950 149
- Refer to NOP 799B for information.
- Distribution Unlimited
- NOP 799G -Indian Ocean. 1944, Reprinted 1974, 12 P.  
AD A950 789
- Sea and swell atlases show monthly, seasonal, or yearly charts, depending on data distribution. Winds, Sea, and Swell are shown monthly; persistence of waves and wave period-height and period-direction are presented seasonally.
- Distribution Unlimited
- NOP 1301 Bathymetric Atlas of the Northwestern Pacific Ocean.  
1969, 51 P.
- Distribution Unlimited
- NOP 1301-S Small Version of NOP 1301, 1970
- Distribution Unlimited
- \* NOP 1301-2-3 Bathymetric Atlas of the North Pacific Ocean.  
1973, 172 P.
- This atlas combines and replaces HOP 1301, HOP 1302, and HOP 1303.
- Distribution Unlimited
- \* NOP 1301-2-3(S) Small Version of NOP 1301-2-3, 1978.  
AD A085 916
- Distribution Unlimited
- NOP 1303 Bathymetric Atlas of the Northeastern Pacific Ocean.  
1971, 48 P.  
Chase, T.E.  
Menard, H.W.
- Bathymetric Atlases show bottom topography by 200-fathom contour intervals overprinted on sounding lines.
- Distribution Unlimited
- # NOP 1301-S Small Version of NOP 1303. 1971  
AD 736 202
- Bathymetric atlases show bottom topography by 200-fathom contour intervals overprinted on sounding lines.
- Distribution Unlimited

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HO MISC. 10712C      See NOP 799CE For Title Information.  
                         Distribution Unlimited

HO MISC. 10712D      Refer to NOP 799D for Information.  
                         Distribution Unlimited

HO MISC. 10712E      , See NOP 799CE  
                         Distribution Unlimited

HO MISC. 10712G      See NOP 799G  
                         Distribution Unlimited

HO MISC. 11275       See NOP 604  
                         Distribution Unlimited

LISTING OF  
PUBLICATIONS

--II--

NAVAL OCEANOGRAPHIC OFFICE

SPECIAL PUBLICATIONS

(SP)



# SP 1

Application of wave forecasts to Marine Navigation.  
1957, Reprinted 1959, 1975, 85 P.  
AD 158 747  
James, R.W.

Discusses effects of currents, winds, and waves on navigation. Synoptic and Prognostic wave charts are used to select least-time tracks. Graphs show relationships between ship speed and head, beam, and following waves.

Distribution Unlimited

# SP 4

Refer to NOAA Hydrographic Manual. Fourth Ed.,  
GPO, Stock NO. 003-021-00015-7

Distribution Unlimited

#\* SP 11

Tables for Rapid Computation of Density and Electrical Conductivity of Sea Water. 1956, 24 P.  
AD 103 555

Tables are presented for machine calculation of density and electrical conductivity of sea water from observed temperature and salinity values. Covers salinity range 10 /00 to 40 /00 for density and 0 /00 to 40 /00 for electrical conductivity.

Distribution Unlimited

SP 22

Aerial Ice Reconnaissance Observational Techniques And Recording and Reporting Procedures.  
1956, Reprinted 1958, 13 P.

Outlines procedures for conducting Aerial Ice Reconnaissance and contains illustrations of more common sea ice conditions.

Distribution Unlimited

# SP 32

A Selective Bibliography of the Environmental Controls on Object Stability on the Sea Bottom.  
1960, 117 P.  
AD 247 912  
Duncan, J.K.

Covers scientific literature in the fields of Marine Geology, Sedimentation, Hydrology, Oceanography, and Hydrography. Entries are annotated for applicability to behavior of bottom installations.

Distribution Unlimited

# SP 33

An Annotated Bibliography of Flushing and Dispersion  
in Tidal Waters. 1960, 34 P.  
AD 260 898  
Fisher, L.J.

Covers scientific literature in the field of hydraulics,  
hydrology, and oceanography. Entries are annotated for  
applicability to flushing contaminated sea water by tides.

Distribution Unlimited

#\* SP 35

Glossary of Oceanographic Terms. 1966, 240 P.  
AD 640 463

Defines oceanographic and allied terms. Contains  
abbreviations, acronyms, titles, and locations of  
institutions, agencies, activities, etc., involved in  
oceanography-oriented projects.

Distribution Unlimited

SP 53

Summary of Oceanographic Conditions in the Indian Ocean.  
1960, 142 P.

An analysis of marine meteorological and oceanographic  
observations available to 1955 compiled as a planning  
aid for the International Indian Ocean Expedition.

Distribution Unlimited

# SP 64

A Statistical Rose Program. 1962, 17 P.  
AD 401 717  
Yergen, W.E.

Describes and evaluates a computer program for statistical  
processing of bivariate data fields.

Distribution Unlimited

# SP 66

Airborne Geomagnetic Data (1953-1961).  
1963, 573 P.  
AD 425 109

Contains geomagnetic data acquired by project Magnet through  
1961.

Distribution Unlimited

# SP 66 -Supp

Airborne Geomagnetic Data. 1965, 265 P.  
AD 714 773

Contains geomagnetic data for 1962 and 1963 and corrections for SP 66.

Distribution Unlimited

# SP 68

Handbook of Oceanographic Tables. 1966, 427 P.  
AD 655 638  
Bialek, E.L.

A ready reference of the more useful oceanographic tables.

Distribution Unlimited

# SP 70-(60)

Report of the Arctic Ice Observing and Forecasting Program. 1960, 1962, 208 P.  
AD 436 455

Graphically summarize Arctic Ice Data collected during specified periods. Methods of data collected, dissemination of ice forecasts, and forecast verification are discussed.

Distribution Unlimited

# SP 70-(61)

Report of the Arctic Ice Observing and Forecasting Program 1961. 1964, 174 P.  
AD 616 262

Graphically summarize Arctic Ice Data collected during specified periods. Methods of data collection, dissemination of ice forecasts, and forecast verification are discussed.

Distribution Unlimited

SP 70-(62)

Report of the Arctic Ice Observing and Forecasting Program. 1962, Reprinted 1965, 172 P.  
AD 616 261

Distribution Unlimited

# SP 70-(63)

Report of the Arctic Ice Observing and Forecasting Program 1963. 1965, 172 P.  
AD 620 875

Graphically summarize Arctic Ice Data collected during specified periods. Methods of data collection, dissemination of ice forecasts, and forecast verification are discussed.

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# SP 70-(64)

Report of the Arctic Ice Observing and Forecasting Program, 1963. 1965, 172 P.  
AD 628 536

Graphically summarize Arctic Ice Data collected during specified periods. Methods of data collection, dissemination of ice forecasts, and forecast verification are discussed.

Distribution Unlimited

# SP 70-(65)

Report of the Arctic Ice Observing and Forecasting Program, 1965. 1967, 166 P.  
AD 655 231

Graphically summarize Arctic Ice Data collected during specified periods. Methods of data collection, dissemination of ice forecasts, and forecast verification are discussed.

Distribution Unlimited

# SP 70-(66)

Report of the Arctic Ice Observing and Forecasting Program, 1966. 1967, 91 P.  
AD 847 277  
Kniskern, F.E.

Graphically summarize Arctic Ice Data collected during specified periods. Methods of data collection, dissemination of ice forecasts, and forecast verification are discussed.

Distribution Unlimited

# SP 70-(67)

Report of the Arctic Ice Observing and Forecasting Program, 1967. 1968, 79 P.  
AD 848 878  
Potocsky, G.J.

Refer to SP 70-(66) for description information.

Distribution Unlimited

# SP 70-(68)

Report of the Arctic Ice Observing and Forecasting Program, 1968. 1969, 104 P.  
AD 864 975

Graphically summarize Arctic Ice Data collected during specified periods. Methods of data collection, dissemination of ice forecasts, and forecast verification are discussed.

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- SP 70-(69) Refer to SP 70-(60) for Title Information.  
AD 864 975
- Refer to SP 70-(60) for Descriptive Information.
- Distribution Unlimited
- SP 70-(70) Refer to SP 70-(60) for Title Information.  
-1970, 1972, 249 P.  
AD 750 744  
Potocsky, G.J.
- Refer to SP 70-(60) for Descriptive Information.
- Distribution Unlimited
- SP 70-(71) Refer to SP-70(60) for Title Information.  
-1971, 1974, 216 P.  
AD 042 709  
Mitchell, P.A.
- Refer to SP 70-(60) for Descriptive Information.
- Distribution Unlimited
- # SP 79 Oceanography for Long Range Sonar Systems. Part 1,  
Introduction to Oceanography and Physics of Underwater  
Sound in the Sea. 1966, 121 P.  
AD 635 668  
Swanson, B.K.
- Provides background in oceanography and underwater acoustics  
for military planning of long-range sonar systems or allied  
fields.
- Distribution Unlimited
- # SP 80-(62) Antarctic Ice Observations, October 1962-March 1963.  
1963, 58 P.  
AD 436 698
- Graphically summarize Antarctic Ice Data collected during  
specified periods. Methods of data collection, dissemination  
of forecasts, and forecast verification are discussed.
- Distribution Unlimited

# SP 80-(63) Antarctic Ice Observations, October 1963-January 1964.  
1965, 27 P.

Graphically summarize Antarctic Ice Data collected during specified periods. Methods of data collection, dissemination of forecasts, and forecast verification are discussed.

Distribution Unlimited

SP 80-(64) Report of the Antarctic Ice Observing and Forecasting Program, 1964, 1966, 31 P.

Graphically summarize Antarctic Ice Data collected during specified periods. Methods of data collection, dissemination of forecasts verification are discussed.

Distribution Unlimited

SP 80-(65) Report of the Antarctic Ice Observing and Forecasting Program, 1965. 1967, 26 P.  
AD 814 009

Graphically summarize Antarctic Ice Data collected during specified periods. Methods of data collection, dissemination of forecasts, and forecast verification are discussed.

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SP 80-(66) Report of the Antarctic Ice Observing and Forecasting Program, 1966. 1967, 28 P.  
AD 822 773

Graphically summarize Antarctic Ice Data collected during specified periods. Methods of data collection, dissemination of forecasts, and forecast verification are discussed.

Distribution Unlimited

SP 80-(67) Report of the Antarctic Ice Observing and Forecasting Program, 1967. 1968, 36 P.  
AD 850 615  
Perchal, R.J.

Graphically summarize Antarctic Ice Data collected during specified periods. Methods of data collection, dissemination of forecasts, and forecast verification are discussed.

Distribution Unlimited

SP 80-(68)

Report of the Antarctic Ice Observing and Forecasting Program, 1968. 1969, 29 P.  
AD 865 084  
Potosky, G.J.

Graphically summarize Antarctic Ice Data collected during specified periods. Methods of data collection, dissemination of forecasts, and forecast verification are discussed.

Distribution Unlimited

SP 80-(69)

Report of the Antarctic Ice Observing and Forecasting Program, 1969. 1971, 125 P.  
AD 737 410

Graphically summarize Antarctic Ice Data collected during specified periods. Methods of data collection, dissemination of forecasts, and forecast verification are discussed.

Distribution Unlimited

# SP 82

Manual of Short-Term Sea Ice Forecasting, 1964.  
142 P.  
AD 445 086  
MacDowell, G.P.  
Wittmann, W.I.

An initial attempt to systematically present ice prediction methods.

Distribution Unlimited

# SP 84

Oceanography and Underwater Sound for Naval Applications. 1965, 142 P.  
AD 627 524

Presents relationship of oceanographic environmental and underwater sound to antisubmarine warfare.

Distribution Unlimited

SP 92

Ocean Currents in the Arabian Sea and Northwest Indian Ocean. 1966, 29 P. (See also SP 1404)  
Boisvert, W.E.

Presents surface currents and wind data from all available sources. Prevailing currents, probable currents, and mean current speed in knots are given. Wind roses cover 5-degree quadrangles.

Distribution Unlimited

SP 93

Circulation Patterns, Johnston Island, Winter-Summer, 1965.  
1966, 240 P.  
Kopinski, R.P.  
Wennekens, M.P.

Discusses regional circulation based on aerial reconnaissance, parachute drogues, and moored current meters. Key factors affecting circulation patterns around Johnston Island are presented.

Distribution Unlimited

# SP 94

Environmental Atlas of the Tongue of the Ocean.  
1967, 82 P.  
AD 814 007

Contains data on bottom materials, topography, sound velocity, physical properties of sea water, tides, currents, and marine and wave climatology. Includes coastal and bottom photographs.

Distribution Unlimited

The following special publications in the SP 95, -96, and -97 series report data collected by survey ships under the marine Geophysical Survey Program in the North Atlantic and North Pacific Oceans. These surveys covered areas identified by letters or Arabic or Roman numerals, see figures 1, 2, and 3. For each area, numbered volumes deal with various types of data and operations.

# SP 95-1-1

Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea  
Area 1, Volume 1, Acoustic Results and Summary Report 1968.  
157 P.  
AD 393 872

Refer to SP 95-1-1

Distribution Unlimited

# SP 95-1-5

Marine Geophysical Survey Program (1965-1967) North Atlantic Ocean, Norwegian Sea and Mediterranean Sea  
Area 1, Vol. 5 Geology and Geophysics. 1967, 39 P.  
AD 817 824L

Refer to SP 95-1-1 for Descriptive Information.

Distribution Unlimited



- # SP 95-1-6      Marine Geophysical Survey Program (1965-1967),  
North Atlantic Ocean, Norwegian Sea and Mediterranean Sea  
Area 1, Volume 6, Oceanographic Station and Velocity  
Profiles. 1967, 180 P.  
AD 818 585L
- See SP 95-1-1
- Distribution Unlimited
- # SP 95-1-7      Marine Geophysical Survey Program (1965-1967), North  
Atlantic Ocean, Norwegian Sea and Mediterranean Sea  
Area 1, Volume 7. Data Catalog. 1967, 90 P.  
AD 817 825L
- See SP 95-1-1
- Distribution Unlimited
- # SP 95-1-8      Marine Geophysical Survey Program (1965-1967), North  
Atlantic Ocean, Norwegian Sea and Mediterranean Sea  
Area 1, Volume 8. Field Operations, 1967, 70 P.  
AD 817 826L
- See SP 95-1-1
- Distribution Unlimited
- # SP 95-2-4      Marine Geophysical Survey Program (1965-1967), North  
Atlantic Ocean, Norwegian Sea and Mediterranean Sea  
Area 2, Volume 4. Reverberation. 1968, 353 P.  
AD 500 109
- See SP 95-1-1
- Distribution Unlimited
- # SP 95-2-5      Marine Geophysical Survey Program (1965-1967), North  
Atlantic Ocean, Norwegian Sea and Mediterranean Sea  
Area 2, Volume 5. Geology and Geophysics. 1968, 69 P.  
AD 842 567
- See SP 95-1-1
- Distribution Unlimited

# SP 95-2-6 Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 2, Volume 6. Oceanographic Stations and Velocity Profiles. 1968, 1997 P.  
AD 668 178

See SP 95-1-1

Distribution Unlimited

# SP 95-2-7 Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 2, Volume 7. Data Catalog. 1968, 84 P.  
AD 666 570

See SP 95-1-1

Distribution Unlimited

# SP 95-2-8 Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 2, Volume 8. Field Operations. 1968, 80 P.  
AD 666 571

See SP 95-1-1

Distribution Unlimited

# SP 95-3-5 Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 3, Volume 5. Geology and Geophysics. 1968, 80 P.  
AD 845 252

See SP 95-1-1

Distribution Unlimited

# SP 95-3-6 Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 3, Volume 6. Oceanographic Stations and Velocity Profiles. 1968, 196 P.  
AD 843 829

See SP 95-1-1

Distribution Unlimited

- # SP 95-3-7      Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 3, Volume 7. Data Catalog. 1968, 98 P. AD 849 362
- See SP 95-1-1
- Distribution Unlimited
- # SP 95-3-8      Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 3, Volume 8. Field Operations. 1968, 84 P. AD 844 912
- See SP 95-1-1
- Distribution Unlimited
- # SP 95-5-5      Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 5, Volume 5. Geology and Geophysics. 1967, 34 P. AD 650 860
- See SP 95-1-1
- Distribution Unlimited
- # SP 95-5-6      Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 5, Volume 6. Oceanographic Stations and Velocity Profiles. 1967, 141 P. AD 650 861
- See SP 95-1-1
- Distribution Unlimited
- # SP 95-5-6S      Marine Geophysical Survey Program (1965-1967), North Atlantic Ocean, Norwegian Sea and Mediterranean Sea Area 5, Volume 6S. Oceanographic Stations and Velocity Profiles Supplement. 1967, 18 P. AD 817 827L
- See SP 95-1-1
- Distribution Unlimited

# MARINE GEOPHYSICAL SURVEY PROGRAM

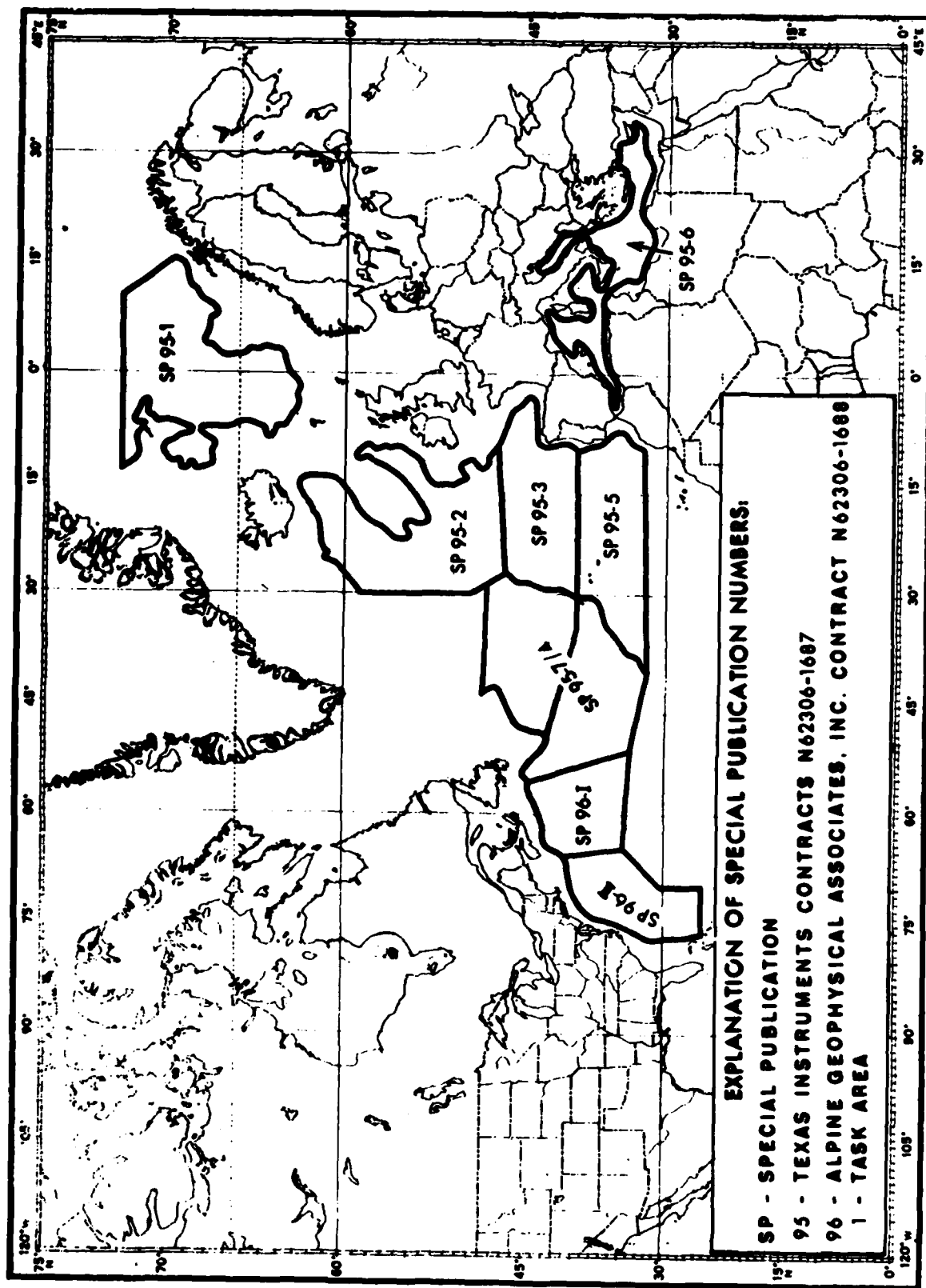


FIGURE 1. DESIGNATED SPECIAL PUBLICATION NUMBERS FOR TASK AREAS IN THE NORTH ATLANTIC

# MARINE GEOPHYSICAL SURVEY PROGRAM

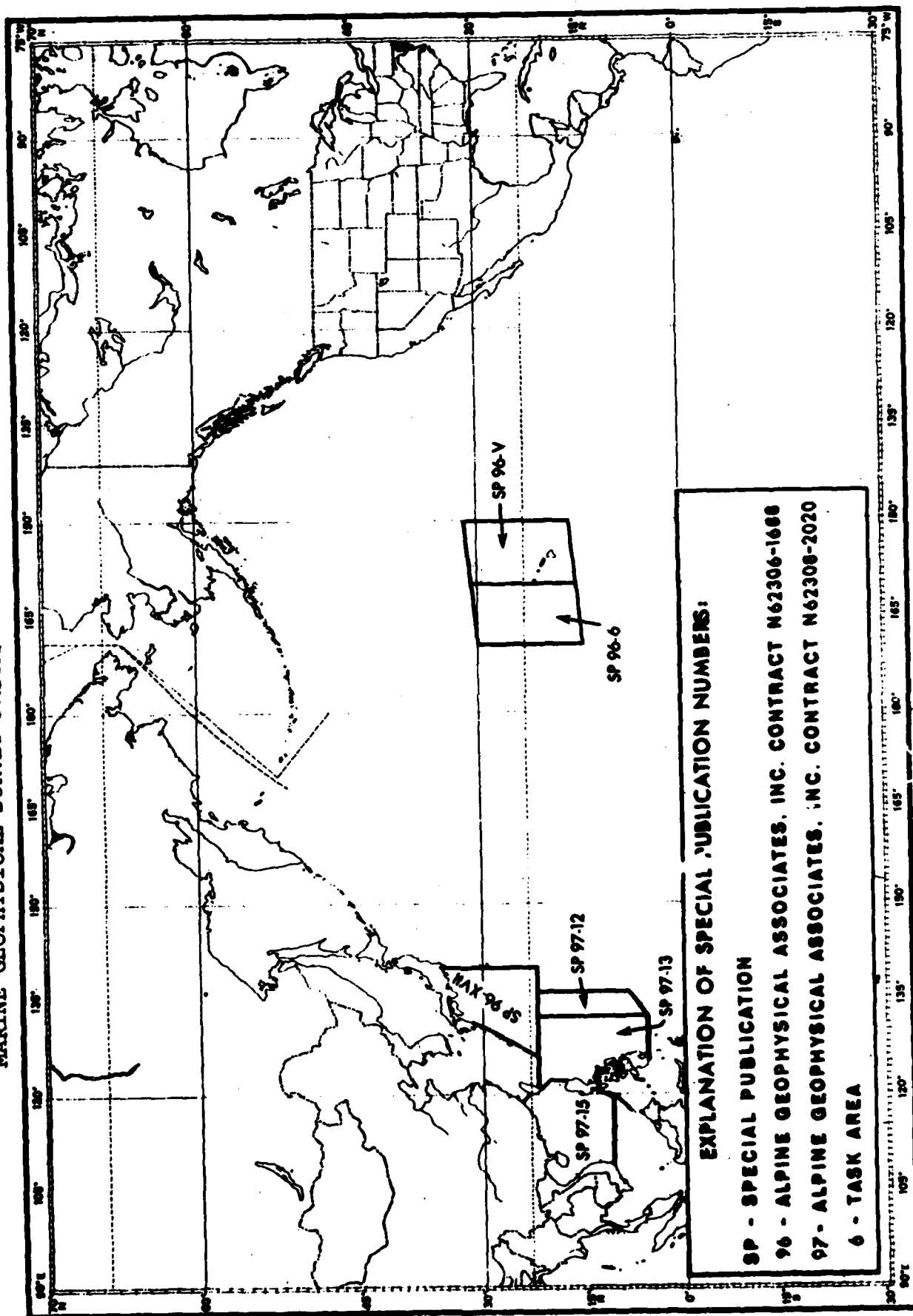


FIGURE 2. DESIGNATED SPECIAL PUBLICATION NUMBERS FOR TASK AREAS IN THE NORTH PACIFIC

# MARINE GEOPHYSICAL SURVEY PROGRAM

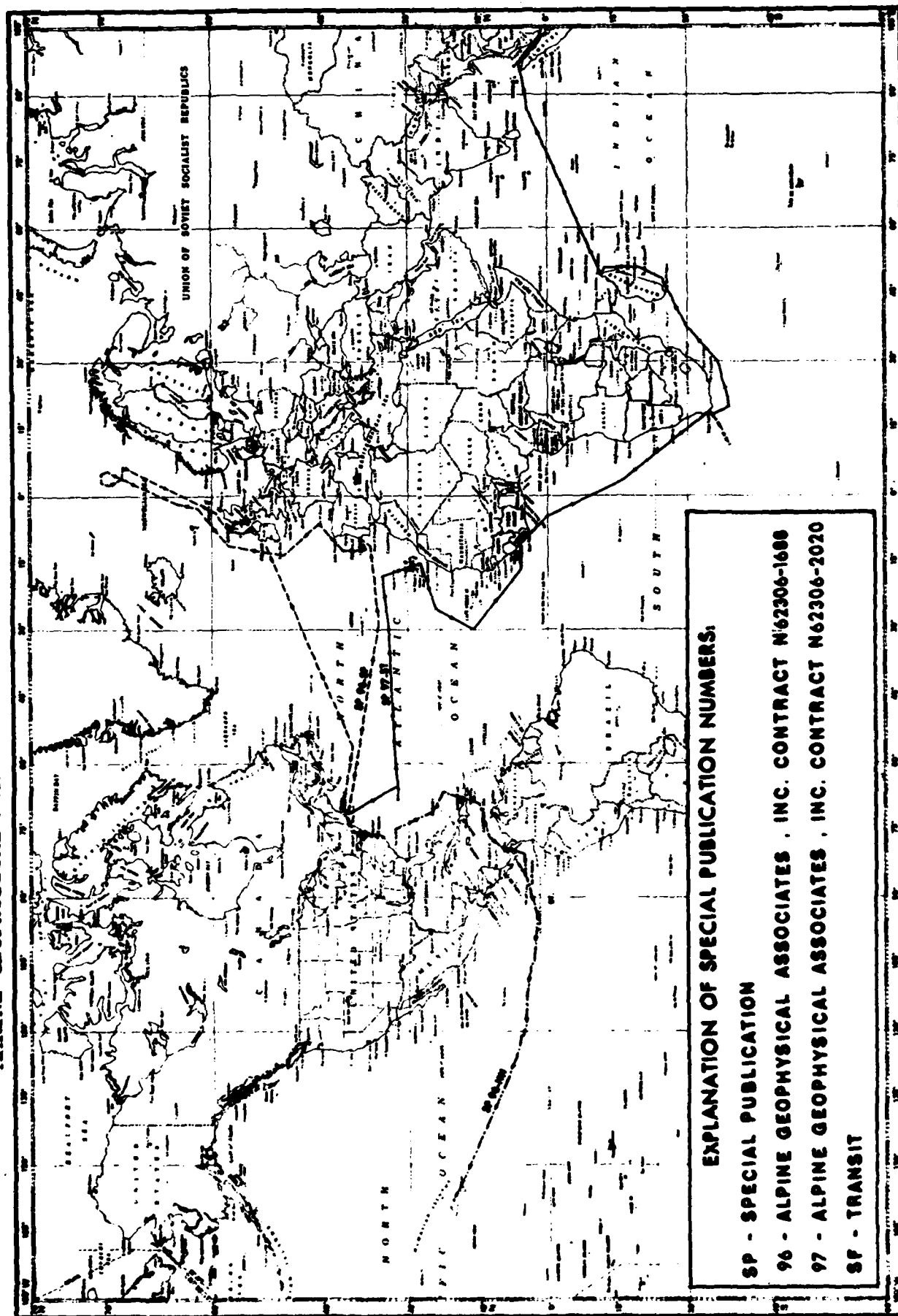


FIGURE 3. DESIGNATED SPECIAL PUBLICATION NUMBERS FOR TRANSITS

- # SP 95-5-7      Area 5, Volume 7. Data Catalog. 1967 120 P.  
AD 817 828  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-5-8      Area 5, Volume 8. Field Operations. 1967, 50 P.  
AD 650 862  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-5-8S      Area 5, Volume 8S. Field Operations, Supplement  
1967, 36 P.  
AD 817 928L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-5-9      Area 5, Volume 9. Data Processing Techniques.  
1968, 113 P.  
AD 393 119  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-6-1      Area 6, Volume 1. Acoustic Results and Summary Report.  
154 P.  
AD 394 862  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-6-6      Area 6, Volume 6. Oceanographic Stations and Velocity  
Profiles. 1967, 246 P.  
AD 664 677  
  
See SP 95-1-1  
  
Distribution Unlimited

- # SP 95-6-7      Area 6, Volume 7. Data Catalog. 1967, 86 P.  
AD 821 292L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-6-8      Area 6, Volume 8. Field Operations. 1967, 75 P.  
AD 821 293L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-7/4-5    Area 7/4, Volume 5. Geology and Geophysics.  
1969, 99 P.  
AD 857 629  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-7/4-6    Area 7/4, Volume 6. Oceanographic Stations and Velocity  
Profiles. 1969, 336 P.  
AD 851 975  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-7/4-7    Area 7/4, Volume 7. Data Catalog. 1969, 122 P.  
AD 850 224  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 95-7/4-8    Area 7/4, Volume 8. Field Operations. 1969, 85 P.  
AD 850 263  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-HH-2     Marine Geophysical Survey Program 1965-1967, Western  
North Atlantic and Eastern and Central North Pacific Oceans,  
Area HH, Volume 2. Summary Report of Geophysical Information  
Part 1. Bathymetry and Subbottom Profiling-Part 2.  
Magnetics. 1967, 101 P.  
AD 664 680  
  
Distribution Unlimited



- # SP 96-HH-3      -Area HH, Volume 3. Catalog of Data. 1967, 33 P.  
AD 846 287L  
  
Distribution Unlimited
- # SP 96-HH-4      -Area HH, Volume 4. Cores and Bottom Photographic  
Stations. 1968, 53 P.  
AD 846 176  
  
Distribution Unlimited
- # SP 96-SF-5      -Area SF, Volume 5. Bathymetry and Subbottom Profiling.  
1967, 65 P.  
AD 816 005L  
  
Distribution Unlimited
- # SP 96-SF-6      -Area SF, Volume 6. Magnetics. 1967, 17 P.  
AD 816 008L  
  
Distribution Unlimited
- # SP 96-SF-8      -Area SF, Volume 8. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-Cores.  
1967, 54 P.  
AD 821 291L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-SF-8A      -Area SF, Volume 8A. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-Sound  
Velocity Profiles. 1966, 54 P.  
AD 815 278L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-SF-9      -Area SF, Volume 9. Catalog of Data. 1967, 40 P.  
AD 815 279L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-I-5      -Area I, Volume 5. Bathymetry and Subbottom Profiling.  
1966, 35 P.  
AD 815 276L  
  
See SP 95-1-1  
  
Distribution Unlimited

- # SP 96-I-6      -Area I, Volume 6. Magnetics. 1966, 25 P.  
AD 815 277L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-I-8      -Area I, Volume 8. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-Cores.  
1966, 48 P.  
AD 816 084L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-I-8A      -Area I, Volume 8A. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations,  
including Area 2. 1966, 29 P.  
AD 816 085L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-I-8B      -Area I, Volume 8B. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-  
Cores. 1967, 49 P.  
AD 821 289L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-I-8C      -Area I, Volume 8C. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-Sound  
Velocity Profiles. 1967, 215 P.  
AD 821 303L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-I-9      -Area I, Volume 9. Catalog of Data. 1966, 41 P.  
AD 816 089L  
  
See SP 95-1-1  
  
Distribution Unlimited

- # SP 96-I-9A      -Area I, Volume 9A. Catalog of Data. 1967, 35 P.  
AD 815 281L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-I-10      -Area I, Volume 10. Ships Operations and Measurements  
at Sea. 1966, 84 P.  
AD 815 280L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-I-11      -Area I, Volume 11. Data Analysis Procedures.  
1966, 23 P.  
AD 815 282L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-II-5      -Area II, Volume 5. Bathymetry and Subbottom Profiling.  
1966, 56 P.  
AD 816 004  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-II-6      -Area II, Volume 6. Magnetics. 1966, 11 P.  
AD 816 087L  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-II-8      -Area II, Volume 8. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-Cores.  
1967, 59 P.  
AD 816 086L  
  
See SP 95-1-1  
  
Distribution Unlimited

- # SP 96-II-8A      -Area II, Volume 8A. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-Sound  
Velocity Profiles. 1967, 217 P.  
AD 821 302
- See SP 95-1-1
- Distribution Unlimited
- # SP 96-II-9      -Area II, Volume 9. Catalog of Data. 1966, 56 P.  
AD 817 837
- See SP 95-1-1
- Distribution Unlimited
- # SP 96-V-5      -Area V, Volume 5. Bathymetry and Subbottom Profiling.  
1967, 84 P.  
AD 825 320
- See SP 95-1-1
- Distribution Unlimited
- # SP 96-V-6      -Area V, Volume 6. Magnetics. 1967, 21 P.  
AD 820 091
- See SP 95-1-1
- Distribution Unlimited
- # SP 96-V-8      -Area V, Volume 8. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-Cores  
1968, 94 P.  
AD 833 858
- See SP 95-1-1
- Distribution Unlimited
- # SP 96-V-8A      -Area V, Volume 8A. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-Sound  
Velocity Profiles. 1968, 94 P.  
AD 852 007
- See SP 95-1-1
- Distribution Unlimited

- # SP 96-V-8B      -Area V, Volume 8B. Core, Sound Velocimeter,  
Hydrographic and Photographic Stations-  
Hydrographic Stations. 1968, 26 P.  
AD 833 859  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-V-9      -Area V, Volume 9. Catalog of Data. 1967, 62 P.  
AD 825 321  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-6-5      -Area 6, Volume 5. Bathymetry and Subbottom Profiling.  
1968, 42 P.  
AD 855 347  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-6-6      -Area 6, Volume 6. Magnetism. 1968, 34 P.  
AD 846 082  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-6-8      -Area 6, Volume 8. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-Cores.  
1968. 82 P.  
AD 851 974  
  
See SP 95-1-1  
  
Distribution Unlimited
- # SP 96-6-8A      -Area 6, Volume 8A. Sound Velocity Profiles.  
1968, 151 P.  
AD 852 007  
  
Distribution Unlimited
- # SP 96-6-8B      -Area 6, Volume 8B. Hydrographic Station.  
1968, 151 P.  
AD 851 493  
  
Distribution Unlimited

- # SP 96-6-9 -Area 6, Volume 9. Catalog of Data. 1968, 80 P.  
AD 845 486  
Distribution Unlimited
- # SP 96-6-10 -Area 6, Volume 10. Ships Operations, Measurement  
At Sea and Data Analysis Procedures. 1969, 110 P.  
AD 856 076  
Distribution Unlimited
- # SP 96-XVII-3 -Area XVII, Volume 3. Bathymetry and Subbottom  
Profiling. 1968, 95 P.  
1968, 95 P.  
Distribution Unlimited
- # SP 96-XVII-4 -Area XVII, Volume 4. Magnetics. 1968, 25 P.  
AD 833 860  
Distribution Unlimited
- # SP 96-XVII-6 -Area XVII, Volume 6. Core, Sound Velocimeter,  
Hydrographic and Bottom Photographic Stations-  
Core. 1968, 71 P.  
AD 847 506  
Distribution Unlimited
- # SP 96-XVII-6A -Area XVII, Volume 6A. Core Sound Velocimeter  
Hydrographic and Bottom Photographic Stations-  
Sound Velocity Profiles. 1968, 81 P.  
AD 847 610  
Distribution Unlimited
- # SP 96-XVII-7 -Area XVII, Volume 7. Catalog of Data. 1967, 35 P.  
AD 668 705  
Distribution Unlimited
- # SP 97-ST-2 -Marine Geophysical Program 1965-1967, Western  
North Pacific Ocean and South China Sea, Area ST  
Volume 2, Summary Report of Geophysical Information.  
1968, 246 P.  
AD 859 525  
Distribution Unlimited
- # SP 97-ST-3 -Area ST, Volume 3. Catalog of Data. 1969, 62 P.  
AD 860 135  
Distribution Unlimited

- # SP 97-12-4      -Area 12, Volume 4. Sound Velocimeter Results,  
No Shot Run Bathymetry. 1969, 115 P.  
AD 854 751  
  
Distribution Unlimited
- # SP 97-12-5      -Area 12, Volume 5. Core Analysis and Bottom  
Photographs. 1969, 64 P  
AD 861 488  
  
Distribution Unlimited
- # SP 97-12-7      -Area 12, Volume 7. Ship Operations, Measurement  
At Sea, and Data Analysis Procedures. 1969, 155 P.  
AD 856 751  
  
Distribution Unlimited
- # SP 97-13-4      -Area 13, Volume 4. Sound Velocimeter Results and  
Shot Run Bathymetry. 1969, 200 P.  
AD 854 752  
  
Distribution Unlimited
- # SP 97-13-5      -Area 13, Volume 5. Core Analysis and Bottom  
Photographs. 1969, 124 P.  
AD 861 839  
  
Distribution Unlimited
- # SP 97-13-6      -Area 13, Volume 6. Catalog of Data. 1969, 66 P.  
AD 852 019  
  
Distribution Unlimited
- # SP 97-13-7      -Area 13, Volume 7. Ship Operations, Measurements  
At Sea, and Data Analysis Procedures. 1969, 156 P.  
AD 856 830  
  
Distribution Unlimited
- # SP 97-15-4      -Area 15, Volume 4. Sound Velocimeter Results and  
Shot Run Bathymetry. 1969, 185 P.  
AD 861 840  
  
Distribution Unlimited
- # SP 97-15-5      -Area 15, Volume 5. Core Analysis and Bottom  
Photographs. 1969, 110 P.  
AD 850 898  
  
Distribution Unlimited

- # SP 97-15-6      -Area 15, Volume 6. Catalog of Data. 1968, 56 P.  
Distribution Unlimited
- # SP 97-15-7      -Area 15, Volume 7. Ship Operations, Measurements  
At Sea, and Data Analysis Procedures. 1969, 155 P.  
AD 856 729  
Distribution Unlimited
- SP 99              Refer to RP 18  
AD 644 978  
Distribution Unlimited
- SP 105            Ocean Thermal Structure Forecasting, 1966, 217 P.  
AD 631 720  
James, R.W.  
Outlines procedures for manually predicting ocean thermal  
structure with emphasis on small-area forecasting over a  
limited time period.  
Distribution Unlimited
- SP 109            Numerical Techniques, 1965, 27 P.  
AD 645 290  
Thompson, B.J.  
Outlines procedures for collecting, editing, analyzing,  
and transforming ASWEPS thermal structure prediction  
data to yield operational sonar range charts.  
Distribution Unlimited
- SP 111            Data Requirements for Synoptic Sea Surface Temperature  
Analyses, 1967, 29-P.  
AD 825 597L  
James, J.W.  
Provides guidelines for quantity and quality of synoptic  
data required for reliable sea surface temperature charts.  
Distribution Unlimited
- SP 123            Refer to RP RP-2  
AD 698 125  
Distribution Unlimited



- # SP 132-1      Science and The Sea. 1967, 84 P.
- Each volume contains 10 pilot chart articles covering a wide range of oceanographic, hydrographic, and navigational subjects.
- Distribution Unlimited
- SP 132-2      Science and The Sea. Vol. II, 1970, 84 P.
- Refer to SP 132-1
- Distribution Unlimited
- SP 133-18-1      Oceanographic Survey Report, Sea of Japan. 1974, 167 P.  
AD 786 136
- This report presents geological, geophysical, and physical oceanographic data of the Sea of Japan survey conducted October 1967 to June 1968.
- Distribution Unlimited
- # SP 138      Spheroidal Geodesics, Reference Systems, and Local Geometry, 1970, 165 P.  
AD 703 541
- A highly technical treatise on the oblate spheroid (reference ellipsoid) with formulas of geodetic accuracy for noniterative direct and inverse solutions using natural trigonometric functions adaptable to high-speed computer.
- Distribution Unlimited
- # SP 142      Marine Geophysical Survey (1965-1968) Station-Data Listing and Report Catalog, 1974, 93 P.  
AD 777 401  
Chanesman, S.  
Kaufman, O.
- A catalog of collected Marine Geophysical Survey (MGS) Data and Published MGS Reports. It lists the types of measurements (acoustic, oceanographic, and geophysical) made at 1,182 stations in the North Atlantic and North Pacific Oceans during the MGS Program 1965-1968. Published MGS task area reports are also briefly described.
- Distribution Unlimited

# SP 152

Micro Observations of the Ocean Surface;  
Analyses of the NASA/NAVY REVIEW, 11-12 June 1969.  
1970, 292 P.  
AD 718 773

Contains results of passive and active remote-sensing microwave experiments.

Distribution Unlimited

#\* SP 189-I

Environmental-Acoustic Atlas of the Caribbean Sea  
and Gulf of Mexico, Volume I, Marine Acoustics.  
1972, 300 P.  
AD 523 097L

Distribution Unlimited

# SP 189-II

Volume II, Marine Environment. 1972, 190 P.  
AD 752 494

These volumes summarize available acoustic and environmental data in the Caribbean Sea and Gulf of Mexico and their Atlantic approaches between 10°N and 30°N and West of approximately 56°W.

Distribution Unlimited

SP 211

Environmental Guide to the Virginia Capes Operating  
Area, 1973, 58 P.  
AD A102 092  
Fisher Jr., A.

Provides an overall perspective of oceanography in the Virginia Capes Operating Area.

Distribution Unlimited

SP 250

Marine Environmental Planning Guide for the Hampton  
Roads/Norfolk Naval Operating Area. 1974, 262 P.  
AD A085 006  
Beauchamp, R.G.

The Marine Environment of the Atlantic Ocean up to 180 miles east of the coast of Virginia and North Carolina is summarized and evaluated to estimate the effects of introduced pollutants.

Distribution Unlimited

# SP 259

Nearshore currents and Coral Reef Ecology of the West Coast of Guam, Marianna Islands. 1974, 185 P.  
AD 780 435  
Huddell, H.O.  
Marchand, G.  
Willett, J.C.

Two field investigations of the currents and coral reef ecology of Guam during the Winter and Summer 1971.

Distribution Unlimited

# SP 260

Analysis of Deflection-of-the-Vertical Inner-Zone Methods. 1974, 75 P.  
AD 776 225  
Kontis, A.L.  
Michlik, R.R.  
David, T.M.

Charts showing the collection of massive amounts of gravity data at sea, processed to produce mean anomalies and computation of the vertical deflection by the method of Vening Meinez.

Distribution Unlimited

# SP 261

Preliminary Results of Little Window 2; A Satellite Ocean Station Experiment in the Gulf of California. 1974, 90 P.  
AD A002 457  
Laviolette, P.E.

A compilation of papers presented 14 April 1972 during the Little Window 2 Workshop.

Distribution Unlimited

SP 262

A Study of Nearshore Marine and Beach Ecology, Pacific Missile Range Facility, Kauai, Hawaii. 1977, 40 P.  
AD A043 183  
Huddell, H.O.  
Willett, J.C.

Discusses environmental impact of cable laying operations at Barking Sands, July 1974.

Distribution Unlimited

# SP 263

Alaskan Area 15- and 30-Day Ice Forecasting Guide  
1975, 198 P.  
Potocsky, G.J.

Details procedures for forecasting ice edge movement,  
ice growth, and ice disintegration using current ice and  
environment data.

Distribution Unlimited

SP 265

Western Ross Sea and McMurdo Sound Ice Forecasting  
Guide, 1975, 145 P.  
AD A010 527  
Perchal, R.J.

Contains procedures for preparing short-range (48 Hr.)  
and long-range (15-to-30-Day) predictions of sea ice  
conditions.

Distribution Unlimited

# SP 266

Eastern Arctic Area 15- and 30-Day Ice Forecasting  
Guide, 1979, 259 P.  
AD A072 930

Predicts growth, movement, and decay of sea ice  
based on storm tracks, sea level temperature, and  
surface currents.

Distribution Unlimited

\* SP 272-1

Atlantic and Mediterranean Sea Table of Communications  
Stations Azimuths and LORAN-C Station Azimuths and  
Distances. 1979, 225 P.  
AD A085 307

The tables in SP 272-1 are designed for users of the Navy  
Communication and LORAN-C stations. The tables give  
Azimuths to communication and LORAN-C stations, and  
distances to LORAN-C stations. Index diagrams of coverage  
of the various tables are provided

Distribution Limited

\* SP 272-2

Pacific Ocean Tables of Communication Station Azimuths  
and LORAN-C Station Azimuth and Distance.  
1981, 300 P.

Refer to SP 272-1 for Descriptive Information.

Distribution Limited

- SP 272-3 Pacific Ocean Tables of Communication Station Azimuths and LORAN-C Station Azimuths and Distance. 1979, 150 P.  
Refer to SP 272-1 for Descriptive Information.  
Distribution Limited
- SP 275 Nearshore Ecological Monitoring at the Autec Sites, Andros Island, Bahamas: Site 2, Rocky Intertidal Zone. 1980.  
AD B085 578L  
Biological survey of the Intertidal Zone at Site 2 of the Autec 10-14 August 1977 and 14-29 April 1978.  
Distribution Limited  
  
Area's covered by the following Special Publications are identified on Figure 4.
- SP 1400-NA-1 Surface Currents-Greenland Including Denmark Strait 1978  
AD A085 441  
Distribution Unlimited
- SP 1400-NA-2 Surface Currents-Norwegian and Barents Sea. 1978.  
AD A085 445  
Distribution Unlimited
- SP 1400-NA-4 Surface Currents-Northwest Atlantic Ocean and Labrador Sea. 1978  
AD A086 178  
Distribution Unlimited
- SP 1400-NA-5 Surface Currents-Northeast Atlantic. 1978  
AD A094 012  
Distribution Unlimited
- SP 1400-NA-6 Surface Currents-West Central North Atlantic. 1978  
AD A102 094  
Distribution Unlimited
- SP 1400-NA-7 Surface Currents-East Central North Atlantic. 1978  
AD A085 439  
Distribution Unlimited
- SP 1401-SA-4 Surface Currents-South Atlantic. 1977  
AD A102 095  
Distribution Unlimited



- SP 1402-NP-4 Surface Currents-Sea of Okhotsk including the  
Kuril Islands. 1977  
AD A102 096  
Distribution Unlimited
- SP 1402-NP-5 Surface Currents-Bering Sea including the Aleutian  
Islands, 1977  
Distribution Unlimited
- SP 1402-NP-6 Surface Currents-Sea of Alaska  
Distribution Unlimited
- SP 1402-NP-7 Surface Currents-Northwest Pacific and Sea of Japan  
1977  
Distribution Unlimited
- SP 1402-NP-8 Surface Currents-North Central North Pacific, 1977.  
Distribution Unlimited
- SP 1402-NP-9 Surface Currents-Northeast North Pacific including  
the West Coast of the U.S., 1977  
AD A10 109  
Distribution Unlimited
- SP 1402-NP-10 Surface Currents-Southwest North Pacific including  
the Philippine Island, 1977  
AD A102 098  
Distribution Unlimited
- SP 1402-NP-11 Surface Currents-Southwest North Pacific, 1977  
AD A102 099  
Distribution Unlimited
- SP 1402-NP-12 Surface Currents-Southeast Central North Pacific  
including the Hawaiian Islands. 1977  
AD A077 400  
Distribution Unlimited
- SP 1402-NP-13 Surface Currents-Southeast North Pacific including  
the West Coast of Central America. 1977  
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SP 1403-SP-1 Surface Currents-Northwest South Pacific. 1977  
AD A085 442  
Distribution Unlimited

SP 1403-SP-2 Surface Currents-Northwest Central South Pacific. 1977  
Distribution Unlimited

SP 1403-SP-3 Surface Currents-Northeast Central South Pacific. 1977  
AD 085 443  
Distribution Unlimited

SP 1403-SP-5 Surface Currents-Southwest Central South Pacific. 1977  
AD A094 014  
Distribution Unlimited

SP 1403-SP-6 Surface Currents-Southeast Central South Pacific. 1977  
AD A094 015  
Distribution Unlimited

SP 1404-IN-1 Surface Currents-Northwest Indian Ocean including  
the Arabian and Laccadive Seas. 1977  
AD A093 993  
Distribution Unlimited

SP 1404-IN-2 Surface Currents-Northeast Indian Ocean including the  
Bay of Bengal, and Andaman Sea, and South China Sea, 1977  
AD A093 994  
Distribution Unlimited

SP 1404-IN-3 Surface Currents-West Central Indian Ocean including  
Mozambique Channel. 1977  
AD A085 444  
Distribution Unlimited

SP 1404-IN-4 Surface Currents-Central Indian Ocean. 1977  
AD A093 955  
Distribution Unlimited



SP 1404-IN-5 Surface Currents-East Central Indian Ocean including  
the East Indian Archipelago (Indonesia). 1977  
AD A093 996

Distribution Unlimited

SP 1404-IN-6 Surface Currents-Southwest Indian Ocean. 1977  
AD A093 997

Distribution Unlimited

SP 1404-IN-7 Surface Currents-South Central Indian Ocean. 1977  
AD A093 998

Distribution Unlimited

SP 1404-IN-8 Surface Currents-Southeast Indian Ocean including the  
West Australian Bight. 1977  
AD A093 999

Distribution Unlimited

LISTING OF  
PUBLICATIONS

--III--

NAVAL OCEANOGRAPHIC OFFICE

TECHNICAL REPORTS

(TR)

TR 8

Harbor Freezeup Report 1957. 1959, 82 P.

Describes formation and growth of sea ice at Point Barrow, Alaska; Thule and Sondre Stromfjord, Greenland. Cape Hooper, and Goose Bay, Labrador, In Autumn 1957. Includes meteorological data.

Distribution Unlimited

# TR 22

Local Environmental Factors Affecting Ice Formation In Sondre Stromfjord, Greenland, 1955, 26 P.

AD 100 162

Tapager, J.R.D.

A study of oceanographic and meteorological conditions of the fjord to determine their relationship to ice. Describes ice formation during Autumn 1953 as well as the history of normal ice formation.

Distribution Unlimited

# TR 23

Local Environmental Factors Affecting Ice Formation in North Star Bugt, Greenland.

1956, 40 P.

AD 107 732

McGough, R.J.

A study of environmental factors influencing formation and growth of sea ice in 1953 at Thule, Greenland.

Distribution Unlimited

# TR 24

Local Environmental Factors Affecting Ice Formation in Terrington Basin, Labrador. 1955, 29 P.

Lee, O.S.

AD 099 261

Compares formation, growth, and disintegration of sea ice during autumn 1953 with historical data.

Distribution Unlimited

# TR 30

Climatology of the Ice Potential as Applied to the Beaufort Sea and Adjacent Waters. 1955, 16 P.

Corton, E.L.

AD 086 506

Describes techniques for ice potential climatology using heat loss, depth of connection, and stability of the water column.

Distribution Unlimited

\* TR 31

Rochedos Sao Pedro E Sao Paulo, 1965, 63 P.

AD 100 722

Tressler, W.L.

Bershad, S.

Beringhausen, W.H.

Describes the 1955 visit of the USS ATKA as well as all previous recorded visits. Changes in the form of the rocks, geology, lithology, fauna, flora, seismicity, and volcanism of the areas are discussed.

Distribution Unlimited

# TR 40

Characteristics of Polar Ice Observed During the 1957 Arctic Cruise of USS NAUTILUS (SSN-571) 1958.  
AD A032 759

Discusses sea-ice features of polar pack transited during 1957 Arctic cruise of the NAUTILUS. Latitudinal and regional sea-ice features are compared. Recommends future use of submarines for data collection.

Distribution Unlimited

# TR 46

Oceanographic Survey Results-Bering Sea Area-Winter and Spring 1955. 1958, 95 P.

USCGC NORTHWIND and USS BURTON ISLAND collected 79 oceanographic stations, 55 bottom samples, ice, weather transparency, and surface currents.

Distribution Unlimited

# TR 47

A Study of the Types, Seasons of Attachment, and Growth of Fouling Organisms in the Approaches to Norfolk, Virginia. 1958, 35 P.  
AD 208 073  
Maloney, W.E.

An analysis of marine biological fouling data obtained in 1956-57 along the bottom near thimble shoal in lower Chesapeake Bay.

Distribution Unlimited

# TR 53

Evaluation of the U.S. Hydrographic Office Ship Routing Program. 1958, 31 P.  
AD 207 893  
James, R.W.  
Hanssen, G.L.

Evaluates 32 oceanographic route forecasts provided for MSTs Vessels. Tables and charts summarize results.

Distribution Unlimited

# TR 54

Meteorological and Oceanographic Factors Relating to  
Antarctic Air-Sea Rescue Operations  
AD 143 856

Presents meteorological and oceanographic background  
information between New Zealand and McMurdo Sound,  
Antarctica.

Distribution Unlimited

# TR 55

Descriptive Oceanography of Kuwait Harbor, 1959.  
Reprint 1967, 43 P.  
AD 225 632  
Dubach, H.W.  
Wehe, T.J.

Oceanographic analysis of Kuwait Harbor and adjacent waters  
based on observations taken between November 1948 and  
May 1949. Included are temperature, salinity, surface,  
and subsurface currents, waves, bottom sediment data and  
other incidental observations.

Distribution Unlimited

# TR 60

Frost Degree Day, Related Ice Thickness Curves, and  
Harbor Freezeup and Breakup Dates for Selected Arctic  
Stations. 1965, 123 P.  
AD 473 345  
Kniskern, F.E.  
Potocsky, G.J.

Historical frost degree data and sea ice information for  
58 selected Arctic stations, including earliest, latest,  
and breakup dates.

Distribution Unlimited

TR 61

A Reappraisal of the Tides of the Mediterranean, 1958, 32 P.  
AD 473 345  
Maloney, W.E.  
Burns, R.E.

Proposes that Mediterranean tides result from tide-  
producing forces rather than a co-oscillation due to  
tidal progression from the Atlantic.

Distribution Unlimited

# TR 62

A Method for Estimating the Flushing Time of Estuaries and Embayments, 1959, 19 P.  
AD 225 633  
Gibson, B.W.

A relationship is derived from the circulation pattern of a piedmont-type estuary to express the time required for change of estuarine volume by tidal action and river flow.

Distribution Unlimited

# TR 70

Sea Surface Temperature Synoptic Analysis, 1962, 17 P.  
AD 417 687  
Gibson, B.W.

Describes techniques for preparing detailed sea surface temperature analysis for large ocean areas utilizing injection temperatures.

Distribution Unlimited

# TR 80

Study of Oceanographic Conditions as Related to Project Polynya, 1961, 75 P.  
AD 402 916  
Senior, C.W.

Presents an ice-growth retardation model based on, and air-bubbling system installed by, MSTSLANT at Thule, Greenland during autumn 1959. Contains oceanographic and meteorological data obtained during autumn 1959 and 1960.

Distribution Unlimited

TR 91

Submarine Oceanographic Instrument Installation Aboard USS REDFIN (SS-272) (With Appendixes A, B, and C). 1960  
AD 317 336

Describes development and installation of oceanographic and ship-motion instruments.

Distribution Unlimited

- TR 96      Marine Biological Fouling in the Approaches to Chesapeake Bay. 1961, 81 P.  
AD 281 104  
Daugherty, F.M.
- Results and Analysis of two and one half years of marine biological fouling data obtained along the bottom of the approaches to Chesapeake Bay from April 1956 to November 1959.
- Distribution Unlimited
- # TR 104      Prediction of the Thermocline Depth. 1960, 81 P.  
AD 288 596  
Mazeika, P.A.
- Presents method for predicting thermocline depth based on BT data and weather conditions at ocean station Charlie (52°N, 35°W), particularly stability in the thermocline and extent of convergence or divergence in wind-driven currents.
- Distribution Unlimited
- # TR 107      The Occurrence and Velocity Distribution of Short-Term Internal Temperature Variations Near Texas Tower No. 4. 1961, 45 P.  
Gaul, R.D.
- Distribution Unlimited
- # TR 108      Submarine Geology of the Tongue of the Ocean, Bahamas. 1962, 84 P.  
AD 404 878  
Busby, R.F.
- Analyses of sediment cores, 6 grab samples, and 4 stereographic camera tracks.
- Distribution Unlimited
- # TR 115      Deflection of the Vertical Computation by Electronic Computer: Using Areas Bounded by Geographic Coordinates. 1962, 15 P.  
AD 400 123  
Campbell, A.C.
- Outlines an automated process for computing gravity deflection components.
- Distribution Unlimited

- # TR 117 Harbor Analog System, Part 1 Waves. 1961, Reprint 1964,  
33 P.  
AD 281 585  
Grabham, A.L.
- Classifies world harbors and nearshore (<30 FM) areas into  
analogous groups with respect to frequency distribution  
of wave heights and periods. (Antecedent to TR 154.)
- Distribution Unlimited
- TR 127 Oceanographic Investigations Made During the Submerged  
World Circumnavigation, USS TRITON (SSRN-586). 1962  
AD 329 448
- Describes instrumentation and techniques used aboard  
USS TRITON for oceanographic measurements during  
circumnavigation, 16 February to 11 May 1960 data obtained  
are included.
- Distribution Unlimited
- # TR 131 Ocean Currents over Plantagenet Bank, Bermuda.  
1962, 73 P.  
AD 416 748  
Pedrick, R.A.
- Contains results of an ocean current study over  
Plantagenet bank, Bermuda, from 1 to 15 August 1961.
- Distribution Unlimited
- # TR 132 Diurnal Temperature Changes at Ocean Station Echo,  
September 1959. 1962, 21 P.  
AD 814 748  
Corton, E.L.
- Describes diurnal temperature changes deduced from a  
series of 900 half-hourly BT's obtained at ocean station  
echo (35 N., 48 W) in September 1959.
- Distribution Unlimited
- # TR 133 A Marine Magnetic Survey off the East Coast of the  
United States, Project N-20. 1962, 29 P.  
AD 402 248
- Describes geomagnetic character of an area off east  
coast of the United States between 35 N and 40 N and  
70 W, and its relations to bathymetric and seismic  
data.
- Distribution Unlimited



# TR 134

Source of Gravity Data at the U.S. Naval  
Oceanographic Office. 1963, 53 P.  
AD 431 645  
Lectka, J.E.  
Lattimore, R.K.

Bibliography and brief abstracts of documents containing  
terrestrial and oceanic gravity data.

Distribution Unlimited

# TR 144

A Study of Aeromagnetic Component Data, Plantagenet  
Bank. 1964, 18 P.  
AD 433 023  
Young, G.A.  
Kontis, A.L.

Data from an aeromagnetic survey, under LORAN-C control,  
are used to compute anomalous components and elements of the  
magnetic feature associated with Plantagenet Bank.  
Estimates shape, location, and magnetic character of the  
source body.

Distribution Unlimited

# TR 146

Statistical Analysis of the Thermal Structure at Ocean  
Weather Station Echo. 1964, 63 P.  
AD 450 633  
Hazelworth, J.B.

Describes sonar experimental research card (SERC) deck,  
consisting of numerous bathythermograms and associated  
weather data from five Ocean Weather Stations and computer  
program utilizing these data.

Distribution Unlimited

# TR 147

Prediction of the 400-Foot Temperature in the North  
Atlantic. 1965, 73 P.  
AD 618 680  
Mazeika, P.A.

Mean surface and 400-foot temperature anomalies are used  
to predict the 400-foot temperature several days in  
advance with an accuracy of 1.1 F.

Distribution Unlimited

# TR 148

Wave Climatology as an Aid to Ship Routing in the North Atlantic Ocean. 1963, 20 P.

AD 427 244

Joseph, E.J.

Kipper, J.M.

Relates climatological data to ship speed reduction in the North Atlantic Ocean. TR 192 (Indian and Indonesian Seas) and TR 219 (North Pacific Ocean) are sequels to this publication).

Distribution Unlimited

# TR 149

A Study of Wave Persistence for Selected Locations In The North Atlantic Ocean, North Sea, and Baltic Sea. 1963, 69 P.

AD 436 879

Kipper, J.M. ▲

Joseph, E.J.

Presents wave persistence graphs constructed from wave data collected by lightships and ocean station vessels.

Distribution Unlimited

# TR 154

Harbor Analog System, Part II. Temperature Structure. 1963, 67 P.

AD 439 095

Grabham, A.L.

Classified world harbors and nearshore (<30 FM) areas into analogous groups according to mean air and mean water temperature, tide ranges, and freshwater influence. (Sequel to TR 117)

Distribution Unlimited

# TR 157

Sharks of the Family Laminidae. 1963, 22 P.

AD 427 400

Farquhar, G.B.

Summarizes available data on some biological aspects of the laminid sharks.

Distribution Unlimited

# TR 159

A Marine Magnetic Survey of the New England Seamount Chain, Project M-9. 1963, 37 P.

AD 437 916

Walczak, J.E.

Results of a systematic geomagnetic and bathymetric survey during June, July, and August 1962 by USS SHELDRAKE (AGS-19).

Distribution Unlimited

# TR 160

Marine Magnetic Survey off the Southern Bahamas  
Project M-15. 1963, 29 P.

AD 427 762  
Bracey, D.R.  
Avery, O.E.

A geomagnetic survey off the Southern Bahamas revealed three distinctive magnetic lineations which indicate the area is the focus of three major faults or fault zones.

Distribution Unlimited

TR 161

Geomagnetic and Bathymetric Profiles Across the North Atlantic Ocean. 1963, 74 P.

AD 431 164  
Avery, O.E.

Presents data collected during the two North Atlantic crossings between New York and the Norwegian Sea during multiship survey operations in November 1961 and March 1962. A total of 17,200 miles was surveyed on six transoceanic tracks.

Distribution Unlimited

# TR 166

A Study of Aeromagnetic Data, New England Seamount Area. 1965, 18 P.

AD 614 117  
Kontis, A.L.  
Young, G.A.

Results of a detailed aeromagnetic survey by project magnet of a 38,000 square mile area off the coast of New England in May 1957.

Distribution Unlimited

# TR 168

Marine Magnetic Surveys in the Northwest Pacific Ocean. 1963, 11 P.

AD 442 030  
Bracey, D.R.

A survey of two areas off the Kamchatka Peninsula between June and September 1962 shows steep, high amplitude magnetic anomalies on or near the continental shelf.

Distribution Unlimited

# TR 169

Gravity Measurements over the European Calibration Line with Lacoste and Romberg Gravity Meters G-2, G-5, and G-15. 1964, 28 P.

AD 611 106

Ernberg, S.C.

Hollensbe, D.F.

Detailed gravity measurements during summer 1963 between Sicily and Norway reveal instrument errors.

Distribution Unlimited

TR 171

See HOP 700 SEC. VI

Distribution Unlimited

# TR 172

Submarine Geomorphology of Eastern Ross Sea and Sulzbergen Bay, Antarctica. 1966, 34 P.

AD 863 508

Lepley, L.K.

Describes submarine topography using data from deep freeze 61, 1960-1961: Marine geophysical investigations. Origins of large depressions and ridges are related to Pleistocene glacial history and structural geology.

Distribution Unlimited

# TR 173

Bottom and Subbottom Investigation of Penobscot Bay, Maine, 1959. 1965, 177 P.

AD 863 509

Ostericher, C.

Presents 168 bottom sediment results and records of 10 sonoprobe runs collected during an inshore survey in Penobscot Bay, Maine.

Distribution Unlimited

# TR 174

Oceanography of the Eastern Great Bahama Bank, Part I. Temperature-Salinity Distribution. 1964, 42 P.

AD 613 615

Busby, R.F.

Dick, G.F.

Delineates temperature-salinity distribution over a one-year period and outlines major factors influencing these distributions.

Distribution Unlimited

# TR 180

Quantitative Analysis of some Bathythermograph Errors. 1966, 27 P.  
AD 635 259  
Hazelworth, J.B.

A statistical analysis of BT errors contained in data collected during eight 3-week cruises to OWS ECHO between 1958 and mid-1963.

Distribution Unlimited

# TR 182

Mathematical Models for Navigation Systems. 1965, 142 P.  
AD 627 893  
Thomas, P.D.

An evaluation is given of the inverse distance solution as used in LORAN-type charting with extensions of formula to give distance and azimuths on the reference ellipsoid within a meter and a second, respectively. Also develops or studies latitudes and geometric quantities referenced on the auxiliary sphere-spheroid configuration.

Distribution Unlimited

# TR 183

Wave Hindcast Project-North Atlantic Ocean (Program 501). 1966, 35 P.  
AD 630 431  
Bunting, D.C.

A resume of various phases of the task, the problems encountered and their solutions, and a summary of the final results.

Distribution Unlimited

# TR 184

The Distribution and Characteristics of Surface Bioluminescence in the Oceans. 1966, 54 P.  
AD 630 903  
Staples, R.F.

An analysis of about 3,000 reports of bioluminescence displays on file at the Naval Oceanographic Office. Various aspects of bioluminescence, bioluminescent organisms, and distribution also are discussed.

Distribution Unlimited

# TR 186

Sediments of the Northern Arabian Sea. 1966, 28 P.  
AD 863 513  
Stewart, R.A.  
Pilkey, O.H.

Discusses temperature, salinity, and bottom sediment data collected during USS REQUISITE oceanographic survey in northern Arabian Sea during February and March 1961.

Distribution Unlimited

# TR 187

Sediments and Reef Corals of Cayo Arenas, Campeche Bank, Yucatan, Mexico. 1966, 58 P.  
AD 863 512  
Busby, R.F.

Morphology, biota, flora, and sediments on and near a coral shelf reef and influence of wind and currents on these are evaluated.

Distribution Unlimited

# TR 188

Terrestrial and Earth Satellite Navigation Systems. 1966, 139 P.  
AD 811 250  
Thomas, P.D.

Satellite navigation and positioning systems are discussed against a background of terrestrial electromagnetic systems.

Distribution Unlimited

# TR 189

Ocean Bottom Reconnaissance off the East Coast of Andros Island, Bahamas. 1966, 59 P.  
AD 804 975  
Busby, R.F.  
Bright, C.V.  
Pruna, A.

Presents results of visual and photographic examination of the ocean bottom. Includes oceanographic and meteorological data pertinent to underwater cable implantment.

Distribution Unlimited

# TR 190

Operations Deep Freeze 63 and 64, Summer Oceanographic Features of the Ross Sea. 1966, 193 P.

AD 638 176

Countryman, K.A.

Gsell, W.L.

Identification and distribution of water masses in the Ross Sea. Includes thermal structure, salinity, density, sound velocity, and dynamic topography data for 200 stations.

Distribution Unlimited

# TR 191

On the Interpretation of Fetch-Limited Wave Spectra as Measured by an Airborne Sea-Swell Recorder.

1967, 62 P.

AD 824 468

Barnett, T.P.

Wilkerson, J.C.

Fetch-limited wave spectra generated by a steady wind were sequentially measured with an airborne sea-swell recorder to estimate rates of growth for various components of the wave spectrum.

Distribution Unlimited

# TR 192

Wave Climatology as an Aid to Ship Routing Part II, Indian Ocean and Indonesian Sea. 1967, 37 P.

AD 646 991

Land, P.B.

Valitski, R.

Relates climatological data to ship speed reduction during 4 seasonal months. TR 148 (N. Atlantic Ocean) is part of this series, and TR 219 (N. Pacific Ocean) is Part III.

Distribution Unlimited

# TR 193

Major Currents in the North and South Atlantic Oceans Between 64° N and 60° S. 1967, 92 P.

AD 827 586

Boisvert, W.E.

Depicts locations, direction of flow, speed, and other characteristics of major currents in the North and South Atlantic.

Distribution Unlimited

# TR 194

Heat Absorption and Heat Budget at Ocean Station  
Echo, September 1959. 1967, 29 P.  
AD 814 063  
Corton, E.L.

BT data are used to calculate horizontal and vertical  
heat exchange in the ocean surface layer to a depth of  
100 feet for clear, partly cloudy, and cloudy skies  
during daylight hours.

Distribution Unlimited

# TR 197

An Examination of Synoptic Oceanographic Data.  
1967, 21 P.  
AD 820 088  
Jung, G.H.

An analysis of a repeated grid of stations in the North  
Atlantic in July 1963 to determine horizontal conductivity  
effects on thermal structure.

Distribution Unlimited

# TR 199

A Study of the Antilles Current using Moored Current  
Meter Arrays. 1967, 142 P.  
AD 825 564  
Maloney, W.E.

Analyzes synoptic measurements collected with "Richardson-  
Type" current meters 225nm east of the Bahamas during  
June-July 1965 and January-February 1966. Frequency  
distributions of current speed and direction were based  
on 50 second averages of current measurements collected  
every 10 minutes

Distribution Unlimited

# TR 200

Some Summer Oceanographic Features of the Laptev and  
East Siberian Seas. 1968, 52 P.  
AD 832 199  
Lockerman, R.C.

Surveys were conducted during 1963 and 1964 to study summer  
oceanographic conditions. Effects of river runoff on  
water characteristics are emphasized.

Distribution Unlimited



# TR 201

Oceanographic Survey Results off Point Arguello, California,  
January and November-December 1964.  
1968, 53 P.  
AD 831 061  
Thomas, R.W.

Analysis of results of two surveys with emphasis on currents.  
Contains bottom sediment logs, plankton summary tables,  
and current drogue summary sheets.

Distribution Unlimited

# TR 202

Some results of an Oceanographic Survey in the Greenland  
Sea, Summer 1964. 1968, 49 P.  
AD 863 514  
Codispoti, L.A.

Deals with summer distributions of temperature, salinity,  
dissolved oxygen, and micronutrients. Positions of  
oceanographic stations are estimated.

Distribution Unlimited

# TR 203

Oceanography in the Channel Islands Area Off Southern  
California, September and October 1965. 1968, 50 P.  
AD 863 515  
Tooma, S.G.  
Iredale, H.

A detailed environmental study of the Channel Islands  
area with emphasis on currents, sound velocity structure,  
and bottom composition.

Distribution Unlimited

# TR 204

Comparisons of Remote Airborne Oceanographic Sensors.  
1968, 39 P.  
AD 845 930  
Beckner, C.F.

Compares a number of remote sensors and their applications  
in detecting oceanographic features. Includes aerial  
photographs of a Rhodamine-B dye patch made to determine  
flow characteristics.

Distribution Unlimited

# TR 207

An Evaluation of the 1965. 0 EPOCH, H.O. 1706 World  
Magnetic Variation Chart. 1968, 303 P.  
AD 841 649  
Hill, D.W.

Evaluates reliability of the variation chart by direct  
comparison of charted and observed values. Magnetic  
variation plays an important role in navigation.

Distribution Unlimited

# TR 208

ASWEPS Shallow Water Investigation, Virginia Capes  
Area, February-March 1967. 1968, 19 P.  
AD 841 649  
Fisher Jr., A.

Oceanic thermal structure over the continental shelf off  
the Virginia Capes was investigated during later winter  
1967. Results show that thermal structure can be  
predicted if synoptic data are sufficient. (Antecedent to  
TR 212).

Distribution Unlimited

# TR 209

An Evaluation of a Computerized Numerical Model for the  
North Atlantic Ocean. 1970, 66 P.  
AD 879 274  
Moskowitz, L.I.

A computerized wave prediction model is statistically  
analyzed by comparison with wave records from shipboard  
wave meters and a wave staff.

Distribution Unlimited

# TR 210

Detailed Thermal Structure of the Western Gulf Stream  
Region. 1968, 25 P.  
AD 850 399  
Thompson, B.J.  
Gemmill, W.H.

Analyzes several thermal structure characteristics observed  
in the Western Gulf Stream region. Features include  
formation of a Gulf Stream meander, a warm eddy in slope  
water, a cool ring south of the Gulf Stream, and numerous  
other indications of warm and cold-water advection.

Distribution Unlimited

# TR 211

Modification and Utilization of AN/SSQ-41 Sonobuoys for the Collection of Volume Reverberation Data from Aircraft. 1968, 49 P.

AD 849 291

Davis, E.E.

Parham, J.B.

Kelly, C.E.

Contains results of test and feasibility studies of modified sonobuoys in the Western North Atlantic for collection of volume reverberation data.

Distribution Unlimited

# TR 212

ASMEPS Shallow Water Investigation-Virginia Capes Areas, September-October 1967. 1969, 25 P.

AD 856 924

Fisher Jr., A.

Contains detailed thermal structure of an oceanic area over the continental shelf off the Virginia Capes during autumn 1967. Major features include warm surface water in the eastern portion of the area and a strong sound channel adjacent to the continental shelf. (Sequel to TR 208)

Distribution Unlimited

# TR 214

Fitting a Set of Straight Lines to a Digital BT Profile. 1969, 31 P.

AD 854 628

Yergen, W.E.

Describes a computer algorithm for fitting straight lines to subsets of points in a digital BT profile or any kind of digital profile in order to improve quality and manageability of the National Oceanographic Data Center BT File.

Distribution Unlimited

# TR 215

Satellites Capable of Oceanographic Data Acquisition, A Review. 1969, 81 P.

AD 856 133

Laviolette, P.E.

Seim, S.E.

Discusses various U.S. satellites capable of remote oceanographic observation.

Distribution Unlimited

# TR 216

Some Summer Oceanographic Features of the Norwegian Sea, Summer 1963. 1969, 35 P.

AD 862 215

Countryman, K.A.

An analysis of water mass, physical property, current, and nutrient data collected by the USS EDISTO (AGB-2)

Distribution Unlimited

# TR 217

Oceanographic Survey Results, Kara Sea, Summer and Fall 1965. 1969, 64 P.

AD 863 641

Milligan, D.B.

Presents a detailed study of the Kara Sea from 163 oceanographic stations occupied by the USCGC NORTHWIND (WAGB-282). Water masses of the Kara Sea are emphasized. Contains cross sections of temperature, salinity, reactive silicate, reactive phosphorus, and pH.

Distribution Unlimited

# TR 218

The Influence of the Natural Environment on MAD Operations. 1969, 39 P.

AD 868 340

Brennan, J.A.

Davis, T.M.

A nonmathematical approach to the relationship between the natural environment and magnetic anomaly detectors.

Distribution Unlimited

# TR 219

Wave Climatology as an Aid to Ship Routing, Part III: North Pacific Ocean. 1969, 45 P.

AD 861 643

Land, P.B.

Valitski, R.

Relates climatological data to ship speed reduction during 4 seasonal months. (TR 148 (N. Atlantic Ocean) is Part I of this series, and TR 192 (Indian and Indonesian Seas) is Part II.)

Distribution Unlimited

- # TR 221      Major Currents Off The West Coast of North and South America. 1969, 37 P.  
AD 866 656  
Boisvert, W.E.
- Describes eight principal currents in various regions from the Bering Sea to Cape Horn.
- Distribution Unlimited
- # TR 222      Major Currents along the Coasts of Norway and the USSR To The Kurils. 1970, 22 P.  
AD 878 632  
Boisvert, W.E.
- Depicts location, direction of flow, general speed, and other characteristics of 17 major currents.
- Distribution Unlimited
- # TR 223      Aerial Observation of Gulf Stream Phenomena-Virginia Capes Area, October 1968-May 1969. 1970, 23 P.  
AD 878 968  
Fisher Jr., A.  
Gotthardt, G.A.
- Describes oceanographic macrofeatures observed with airborne sensors northeast of Cape Hatteras.
- Distribution Unlimited
- # TR 224      Biological Sound Scattering Studies, Part I. Initial Investigations in the Gulf of Mexico and Western North Atlantic. 1970, 49 P.  
AD 877 032  
Zahuranec, B.J.  
Pugh, W.L.  
Farquhar, G.B.
- Summarizes initial (before May 1967) bioacoustic investigations of deep scattering layers (DSL). Environmental, acoustic, and biological aspects of the DSL are discussed, with emphasis on the latter.
- Distribution Unlimited

TR 225

Numerical Methods of Predicting the Northern Edge of the Gulf Stream. 1971, 14 P.  
Gemmill, W.H.

An attempt is made to simulate and predict occurrence of Gulf Stream meanders by a numerical computer method. Establishes a simply barotropic dynamic model.

Distribution Unlimited

# TR 226

Spline Interpolation Algorithms for Tracking Survey Data with Application to the Computation of Mean Gravity Anomalies. 1970, 82 P.

AD 881 287

Davis, T.M.

Kontis, A.L.

Evaluates cubic and bicubic spline interpolation procedures for generating gridded data values and estimates of mean free air gravity anomalies. Effects of track spacing, track orientation, and down-track sampling rate on interpolation accuracy are demonstrated.

Distribution Unlimited

# TR 231

The Sound Velocity Structure of the North Indian Ocean. 1972, 98 P.

AD 759 352

Fenner, D.F.

Bucca, P.J.

Compares monsoonal sound velocity profiles and temperature-salinity diagrams for 36 locations. Contains surface, intermediate, and subsurface circulation diagrams.

Distribution Unlimited

# TR 233

Synthetic Bathymetric Profiling System (SYNBAPS). 1973, 124 P.

AD 762 070

VanWyckhouse, R.J.

Describes a computerized technique for rapid generation of bathymetric profiles along great circle paths in order to establish a worldwide bathymetric data bank. Ten FORTRAN IV computer programs are presented. With slight modification the programs are applicable to other contoured data.

Distribution Unlimited

# TR 234

An Investigation of XBT Encoding Errors and Their Effect on Sonar Range Prediction. 1977, 12 P.  
AD A036 664  
Fisher JR., A.  
Riley, L.

Examination of XBT data collected during two fleet exercises revealed less than 40 percent encoding accuracy for radio transmission. Encoding errors are discussed and examples given.

Distribution Unlimited

# TR 237

The Geomorphology of Johnston Atoll. 1973, 27 P.  
AD 768 300  
Ashmore, S.A.

A comprehensive bottom topography survey of the Johnston Island platform to 100-foot depths between August and November. Supporting unpublished data consisted of sounding journals, fathometer traces, smooth sheets, and horizontal control records.

Distribution Unlimited

# TR 239

Trace Elements Equilibrium Studies. 1973, 11 P.  
AD 776 124  
Gassaway, J.D.

Describes an investigation of the ability of certain compounds to concentrate trace elements from seawater to allow for their measurements by accepted analytical techniques.

Distribution Unlimited

# TR 241

Coastal Oceanographic Use of the Defense Meteorological Satellite Program (DMSP). 1975, 36 P.  
AD A024 269  
Huh, O.K.

Evaluates use of the DMSP for collecting near real-time remotely sensed sea surface thermal data.

Distribution Unlimited

# TR 242

Optimal Smoothing, A Post Survey Navigation Data Processing Program. 1975, 75 P.  
AD A023 752  
Byrnes, H.J.  
Fagin, L.

Provides a FORTRAN IV computer program technique for improving survey plots capable of operating in a variety of navigational modes, using real and simulated survey data.

Distribution Unlimited

# TR 245

Satellite Imagery and Weather for the BESEX Area 15 February through 10 March 1973, Published by Goddard Space Flight Center, NO. X910-74-186. 1974, 87 P. (For availability contact: Technical Information Division, Code 250, Goddard Space Flight Center, Greenbelt, MD 20771).  
AD N74 28072  
Gloersen, P.  
Laviolette, P.E.

Contains satellite imagery for the Bering Sea experiment (BESEX) period. Images were received from the satellite at approximately 2300 hours GMT each day.

Distribution Unlimited

# TR 250

The Effect of Geomagnetic Micropulsation on MAD Systems. 1975, 19 P.  
AD A020 972  
Brennan, J.A.  
Smits, K.

Summarizes relationship of geomagnetic disturbances observed between May 1969 and April 1972 to MAD used in submarine detection.

Distribution Unlimited

TR 256

Evaporation Duct Height Measurements in the Mid-Atlantic. 1978, Reprint 1980, 130 P.  
Fairall, C.W.  
Davidson, K.L.  
Schacher, G.E.  
Houlihan, T.M.

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Circulation and Oceanographic Properties in the Somali Basin as Observed During the 1979 Southwest Monsoon. 1981, 76 P.

Beatty, W.  
Guthrie, R.  
Bruce, J.

XBT STD, sea surface temperatures and salinity observations from August 16-September 5, 1979 in area of Somali current off the coast of Northeast Africa studies of satellite infrared photographs and XBT cross sections taken from tankers transiting area July and early August 1979.

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Response Characteristics of the Neil Brown Instrument Systems Inc. Mark III, CTD to Step Changes in Temperature and Conductivity. 1980, 12 P.

AD A102 543  
Paige, M.A.

Response characteristics of the NBIS, CTD temperature and conductivity sensors documented in late 1978.

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The Assessment of Tactical Sonobuoy Computer Programs for Environmental Software Systems. 1980, Reprinted 1981, 126 P.

AD A104 415  
Furillo, L.J.

Four tactical sonobuoy programs were investigated to identify parameters and techniques used in the prediction of sonobuoy sensor performance.

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TR 261

Copper and Mercury Distribution in the Iceland-Faeroe Ridge Area, Fall 1980. 1982, 35 P.

Lorens, G.

A suite of water samples collected in the Iceland-Faeroe ridge area analyzed for copper and mercury.

Distribution Unlimited

TR 262

Biofouling Studies in the Baltic Approaches. 1981, 14 P.  
AD A100 328  
DePalma, J.R.

Collection of biofouling organisms at 21 sampling stations during 1975-1977 located in a variety of depths and environments in the Danish Sound.

Distribution Unlimited

TR 266

Morphological Characteristics of North Atlantic and North Pacific Seamounts as Factors for Designing Effective Survey Detection Strategies. 1981, 29 P.  
AD 103 379  
Bracey, D.R.

Bathymetric and geophysical survey strategies defined based on seamount morphological parameters for the detection of North Atlantic and North Pacific Seamounts.

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TR 267

Functional Description of the Active Sensor Range Prediction Modes (Active ASRAP). 1981, 11 P.  
AD A104 416  
Lever, J.A.

Detailed description of active ASRAP. Explicit formulation of the mathematical techniques used in the model so the reader can examine the inherent assumptions and the applicability of the program for his use.

Distribution Unlimited

- TR 269      Digital Filtering of TIROS-N Midinfrared Satellite Data.  
1981, 20 P.  
AD A106 755  
Coulter, R.  
Horton, C.
- Distribution Unlimited
- TR 270      Multivariate, Minimum Curvature Splines for Randomly-  
Spaced Data. 1982, 90 P.  
Cloutier, J.R.
- A collection of multivariate splines which are  
applicable to randomly spaced data is developed.
- Distribution Unlimited
- TR 271      Mixed Layer Depth Distributions from SVSTD Data.  
1981, 105 P.  
Milinelli, E.  
Donelson, J.  
Lilly, L.
- Mixed layer depths are defined in terms of four parameters  
temperature, sound speed, density and stability, broken  
down by the spring, summer and fall seasons and by  
specific area in the Northern North Atlantic.
- Distribution Unlimited
- TR 272      Variations in the Thermal Structure and Wind Field  
Occurring in the Western Indian Ocean During the  
Monsoons. 1981, 171 P.  
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Bruce, J.
- Monitoring changes in the temperature field in the Somali  
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obtained along the tanker sea lane offshore between  
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- Distribution Unlimited
- TR 275      Gulf Stream Surface Front Displacement by the Local Wind  
Stress: A Two Dimensional Numerical Model. 1983, 28 P.  
Horton, C.
- Modeling of three different storm paths showing displacement  
of the surface front of the Gulf Stream due to normally short  
but intense wind events such as hurricanes.
- Distribution Unlimited

TR 276

Catenary Analysis for Mava Buoy Array Recovery.  
1982, 19 P.  
AD A116 000  
Mayoral, C.

Description of a two-dimensional static catenary analysis technique developed for recovery of a Mava buoy array deployed at a depth of 4515 M.

Distribution Unlimited

TR 277

An Evaluation of the Airborne Expendable Bathythermograph (AXBt, SSQ036BTS). 1982, 80 P.  
Gent, A.E.

Using precision laboratory facilities, results, conclusions and lots of AXBTs manufactured by the Hermes, Seppican and Magnavox Corporations. Tests for temperature accuracy and time response are presented.

Distribution Unlimited

TR 278

A Surface Recovery Technique for Deep Moored Vertical Arrays. 1981, 35 P.  
AD A115 448  
Paige, M.A.  
Heuser, P.J.  
Lindquist, L.A.  
Selleck, J.H.

Description of a surface recovery technique developed for the retrieval of a vertically oriented array which had been anchored at a depth of 4550 meters.

Distribution Unlimited

TR 280

A Prototype Bioluminescence Photometer. 1982, 29 P.  
Geiger, M.L.

History and performance of the NAVOCEANO bioluminescence photometer system is documented. The system is a vertically lowered device that records flashes of light produced when small bioluminescent marine organisms are pumped into a turbulent flow regime chamber where they are viewed by a photomultiplier tube.

Distribution Unlimited

- TR 281      Use of Gallium Triple Point as High Temperature Reference.  
1982, 4 P.  
AD A115 227  
Gent, A.E.  
Guess, Andrew
- Description of the evaluation of a triple point of Gallium cell for use as a primary standard in checking the accuracy of laboratory platinum resistance thermometers.
- Distribution Unlimited
- TR 282      The SHARPS Model and On-Scene Prediction Systems.  
1982, 22 P.  
Banas, P.J.
- An historical perspective of the development and implementation of the SHARPS Model for generating sonar range predictions is given, with a discussion of specific impacts on on-scene prediction systems.
- Distribution Unlimited
- TR 283      Geophysics and Tectonic Development of the Caroline Basin. 1983, 75 P.  
AD A131 314  
Bracey, D.R.
- Attempt at a reasonable synthesis of the Caroline Basin origin.
- Distribution Unlimited
- TR 285      Aeromagnetic Detection and Definition of Sea Mounts.  
1982, 23 P.  
AD A117 153  
Bracey, D.R.
- Using observed anomaly characteristics and relationship between the MAD electronic filter and seamount peakdepths, an aeromagnetic seamount location and definition strategy is developed. Also discussed are limitations recommended refinement and future development of the method.
- Distribution Unlimited

TR 287      Variability in the Mixed Layer Depth Near the Polar Front.  
1982, 21 P.  
AD A117 154  
Teague, B.  
Von Zweck, O.

The depths of the surface mixed layer are estimated for the fall season in the Norwegian Sea and Ireland-Faeroe Gap areas using definitions of mixed layer depth based on temperature and Brunt-Vaisala frequency.

Distribution Unlimited

TR 289      Variability in the Mixed Layer Depth Near the Iceland-Faeroe Polar Front During Spring 1981. 1982, 21 P.  
Teague, B.

Surface mixed layer depths are computed for the spring season in the Norwegian Sea and the Iceland-Faeroe Gap areas using definitions of mixed layer depth based on Brunt-Vaisala frequency and on temperature.

Distribution Unlimited

TR 290      Determination of Stability from Temperature Profiles.  
1982, 34 P.  
AD AA29 567  
Teague, B.  
Von Zweck, O.  
Wahl, R.J.

Comparison of vertical profiles of Brunt-Vaisala (BV) frequency derived from measured temperature and constructed salinity data to BV frequency profiles calculated from C&D data.

Distribution Unlimited

TR 291      On Locating Satellite Groundtrack Intersections.  
1983, 12 P.  
Cloutier, J.R.

Presentation of simple equations for determining the longitudes of a satellite's groundtrack intersection.

Distribution Unlimited

LISTING OF  
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--IV--

NAVAL OCEANOGRAPHIC OFFICE

REFERENCE PUBLICATIONS

(RP)

# RP 1

Basic Acoustic Oceanography. 1975, Reprint 1978, 13 P.  
AD A014 720  
Schulkin, M.

Comprised of notes from a graduate course in ocean acoustics. Introduces oceanography in an elementary and compact way, emphasizing useful and interesting features for acoustic applications.

Distribution Unlimited

RP 2

Atlas of North Pacific Ocean Monthly Mean Temperatures and Mean Salinities of the Surface Layer. 1976, 194 P.  
AD A094 034  
Robinson, M. K.

Temperature charts at 100-ft depths, surface to 400 ft, based on 17 years of BT data. Annual cycle temperature curves at 5° Lat. and 10° Long. Intervals. Mean monthly thermocline depth charts. Salinity charts for the same five depths are based on 1969 NODC hydrocast tapes. Charts of annual mean temperatures and temperature range for the five levels.

Distribution Unlimited

RP 3

Regional Geological/Geophysical Study of the Caribbean Sea (Navy Ocean Area NA-9), 1. Geophysical Maps of the Eastern Caribbean. 1976, 36 P.  
AD A085 888  
Holcombe, T.L.  
Matthews, J.E.

Seven geophysical maps and three track control maps based on all available bathymetric, magnetic, and seismic reflection data for the Venezuelan Basin. (see Figure 4.)

Distribution Unlimited

\* RP 6-I

-Vol. I. LORAN-C Data Book, LANT/MED. 1974, updated as required.

Consolidates all the required data for the LORAN-C navigation system with the exception of the Secondary Phase Correction Tables. The data contained cover the hyperbolic (time difference) and rho-rho (range or phase shift) modes of operation. Each LORAN-C net has two sections, one section for each of the two modes of operation.

Distribution Limited



- \* RP 6-II                    -Vol. II. LORAN-C Data Book, PACIFIC. 1976, updated as required.

Same description as Volume I.

Distribution Limited
- RP 7                        The Traveler's Handbook. 1977, 18 P.

Middle Management Council

A compendium of rules and regulations for use of NAVOCEANO field personnel. A source of travel advice and information.

Distribution Unlimited
- # RP 8                      A Numerical Ice Forecasting System. 1975, 152 P.

AD A023 183

Gerson, D.J.

Forecasting aids for ice formation and thickness for 62 Arctic locations. Also provides aids for sea surface temperatures, snow depths, mean and degree-day accumulations.

Distribution Unlimited
- # RP 8-S                    Wind Drift of Sea Ice - A Supplement to the Naval Oceanographic Office Numerical Ice Forecasting System. 1976, 21 P.

AD A038 019

Gerson, D.J.

Simpson, L.S.

Supplements forecasting system contained in RP 8.

Distribution Unlimited
- # RP 9                      Statistical Summary of Oceanic Fronts and Water Masses in the Western North Atlantic. 1976, Reprint 1979, 27 P.

AD A084 182

Khedouri, E.

Gemmell, W.H.

Shank, M.

Spatial variability and thermal characteristics of the Gulf Stream and slope front are summarized to yield average or typical conditions. Also thermally related parameters, e.g., sonic layer depths and sound channels for each water mass by seasons.

Distribution Unlimited

- # RP 12 Final Report on Marine Biofouling Studies At Admiralty Inlet, Washington. 1976, 20 P.  
AD A028 786  
Depalma, J.R.
- Summarizes test panel studies, August 1963 - June 1968. Thirty-seven species collected and identified.
- Distribution Unlimited
- # RP 13 Theory and Practice of Geophysical Survey Design. 1974, 137 P.  
AD A003 078  
Davis, T.M.
- A theory for designing parallel track-type geophysical surveys and numerical algorithms for implementing surveys.
- Distribution Unlimited
- # RP 14 Gravity and Practice of Geophysical Survey Design. 1974, 137 P.  
AD A022 869  
Hill, D.W.
- Investigates gravity prediction in sparsely surveyed areas. (Master's Thesis, University of Pennsylvania )
- Distribution Unlimited
- # RP 15 Marine Biofouling Studies in the Gulf of Siam. 1977, 17 P.  
AD A045 269  
Depalma, J.R.
- Summarizes test panel studies in the North Gulf of Siam, 1968-1972. Fifty-two species collected and identified.
- Distribution Unlimited
- # RP 16 Regional Geological Maps of the Northeast Pacific (Navy Ocean Area NP-9). 1978, 27 P.  
AD A062 095  
Morton, W.T.  
Lowrie, A.
- Nine geophysical and geological maps based on all available bathymetric, magnetic, seismic reflection and core sample data. (see Figure 4.)
- Distribution Unlimited

- # RP 17      Aerial Ice Reconnaissance and Satellite Ice Information  
Microfilm File. 1976, 33 P.  
AD A037 300  
Mitchell, P.A.
- Supplements Arctic data contained in the SP 70 series  
(discontinued 1971) and Antarctic data in the SP 80 series  
(discontinued 1969).
- Distribution Unlimited
- RP 17(76)      Supplements RP 17 to end of Calendar Year 1976. 1977, 18 P.  
AD A043 046
- Distribution Unlimited
- RP 17(77)      Supplements RP 17 to end of Calendar Year 1977. 1978, 6P.
- Distribution Unlimited
- # RP 18      Atlas of North Atlantic-Indian Ocean Monthly Mean  
Temperatures and Mean Salinities of the Surface Layer.  
1979, 234 P.  
Robinson, M.K.  
Bauer, R.A.  
Schroeder, E.H.
- Temperature charts at 100-ft depths, surface to 492 ft,  
based on 28 years of BT data. Annual cycle temperature  
curves at 5° lat. and 10° long. intervals. Mean monthly  
thermocline depth charts. Salinity charts for the same six  
depths are based on 1969 NODC hydrocast tapes. Charts of  
annual mean temperatures and temperature ranges for the  
six levels.
- Distribution Unlimited
- # RP 19      The ICAPS Water Mass History File, 1978. 61 P.  
AD A085 000  
Fisher Jr., A.
- Discusses Integrated Command Antisubmarine Warfare  
Predication System.
- Distribution Unlimited
- # RP 20      Oceanographic Analysis Manual for On-Scene Prediction  
Systems. 1978, 93 P.  
AD A085 947  
Fisher Jr., A.
- Provides basic techniques and sample for applying  
oceanographic analyses to acoustic performance prediction  
with particular emphasis on quality control of XBT data.
- Distribution Unlimited

#\* RP 21

Guide to Common Shipboard Expendable Bathythermograph (SXBT) Recording Malfunctions. 1978, 46 P.  
Kroner, S.M.  
Blumenthal, B.P.

An aid to discern SXBT good data from bad data. Describes erroneous traces and simplest methods of rectifying most common problems.

Distribution Unlimited

#\* RP 24

Program Operating Procedures for the Integrated Common ASW Prediction System (ICAPS), Vol I. 1979, 200 P.

Detailed instructions for ICAPS minicomputer programs for rapid on-scene analysis of oceanographic data.

Distribution Unlimited

RP 29

The Acoustic Reference Service, A Subset of the Oceanographic Management Information System. 1980, 32 P.  
Vinson, P.S.

The OMIS uses NAVOCEANO computer facilities to contribute an inventory of underwater acoustic data and associated environmental measurements. Provides information concerning the existence, density, location and status of acoustic data. Final reports, scientific papers, on-line data bases, cognizant persons and contact procedures are identified.

Distribution Unlimited

RP 30

Indian Ocean Geological, Geophysical and Oceanographic Data Catalog, USNS WILKES, 1977-1979. 1980, 39 P.  
Little, L.  
DiPiazza, N.J.  
Vestal, W.J.  
Searcy III, W.P.

A summary of the type, amount and location of the environmental data collected by the USNS WILKES (T-AGS 33) during surveys in the Indian Ocean from May 1977 to December 1979.

Distribution Unlimited

RP 31            The Oceanographic Environmental Reference Service.  
1981, 32 P.  
AD A097 340  
Rein, R.L.

Detailed instructions are presented for the retrieval of information from the Oceanographic Environmental Reference Service Data Base, which is accessed by the use of an interactive program. The data base is designed to serve as an inventory of oceanographic data collection efforts and an index to data collected.

Distribution Unlimited

\*    RP 32A            ICAPS Oceanographic Data for the Atlantic and the  
Mediterranean Sea. 1980, 194 P.  
AD A104 787

The Integrated Command ASW Prediction System (ICAPS) Oceanographic Data Files for the Atlantic and Mediterranean, Vol. A.; Pacific, Vol. B.; and The Indian Ocean, Vol. C., are presented. These graphic displays provide an illustration of the historical data stored within the ICAPS data base.

Distribution Limited

\*    RP 32B            ICAPS Oceanographic Data for the Pacific Ocean. 1980, 171 P.  
AD A103 439

Refer to RP 32A for descriptive information.

Distribution Limited

\*    RP 32C            ICAPS Data for the Indian Ocean. 1980, 151 P.  
AD A103 173

Refer to RP 32A for descriptive data.

Distribution Limited

RP 34            National Oceanographic Fleet Operating Schedules. (year),  
250 P.

This publication provides the National Oceanographic Fleet Operating Schedules on an annual basis. The schedules are issued each year from input furnished by ship operators.

Distribution Unlimited

RP 35

The Coastal Environmental Reference Service Retrieval Program Users Guide. 1981, 22 P.  
Blumenthal, R.B.  
O'Quinn, B.

Detailed instructions are presented for the retrieval of information from the Coastal Environmental Reference Service Data Base via the use of an interactive retrieval program. The data base contains information on coastal studies, data collection sites and types of data collected.

Distribution Unlimited

RP 36

Environmental Files and Data Bases, Part A, Introduction and Oceanographic Management Information System. 1981, 89 P.  
AD A113 687

This publication provides information about the environmental data holdings of the Naval Oceanographic Office. Chapters contain descriptions and summaries of the Oceanographic Information System's services: Acoustic, bathymetric, geomagnetics, gravity, hydrography, marine geology, physical oceanography, climatology and biology.

Distribution Unlimited

RP 37

Oceanographic Technology Information Service: User Guide. 1981, 54 P.  
AD A104 670

This publication references the Data Management System which utilizes the NAVOCEANO computer facilities. Its purpose is to identify, define and serve as a focal point for oceanographic, technological capabilities currently being maintained by or available to the Navy that are required to support research and operations in oceanography, meteorology and mapping, charting and geodesy.

Distribution Unlimited

★ RP 39

Some Guidelines for the Submarine Launched Expendable Bathythermograph (SSXBT) System. 1981, 22 P.  
AD A113 661  
Fisher Jr., A.

The AN/BSQ-23 and AN/BQH-7 expendable bathythermograph systems provide the means whereby the submariner can obtain information about the surrounding ocean. Because the systems are, of necessity, more complex than similar systems used aboard surface ships, the incidence of failure has been high. This report incorporates suggestions to improve system performance by providing insight in recognizing system failures and trace interpretations.

Distribution Unlimited

RP 42A

Typical Expendable Bathythermograph (TXBT) Data Base. 1982, 504 P.

Typical expendable bathythermograph (XBT) profiles for the Integrated Command ASW Prediction System (ICAPS) operating areas of the North Atlantic, Pacific and Indian Oceans are presented. These XBT profiles represent a new ICAPS oceanographic data base for the upper 400 meters of the ocean. Profiles were developed from the extensive bathymetric data holding of NAVOCEANO.

Distribution Limited

RP 42B

Typical Expendable Bathythermograph (TXBT) Data Base (Pacific Ocean). 1982, 489 P.

Refer to RP 42A for descriptive information.

Distribution Limited

RP 42C

Typical Expendable Bathythermograph (TXBT) Data Base (Indian Ocean). 1982, 240 P.

Refer to RP 42A for descriptive information.

Distribution Limited

RP 43

Oceanographic Analysis Manual for On-Scene Prediction  
Systems. 1982, 37 P.  
AD A117 154  
Angell, G.  
Webb, L.

This Report is intended to acquaint naval personnel having limited oceanographic training and experience with an approach to analysis of oceanographic data as applied to acoustic performance predictions. Special emphasis is placed on computer-assisted techniques.

Distribution Unlimited

# RP 134-18-5

Aspects of Sound Speed Structure and Related Water Properties in the Gulf of Mexico, June - December 1969. 1975, 56 P.  
AD A024 265  
Jarvela, L.E.  
McComas, W.

Examines required and seasonal features of water properties and currents between late spring and autumn, with emphasis on their relation to sound speed structure and sound propagation paths.

Distribution Unlimited



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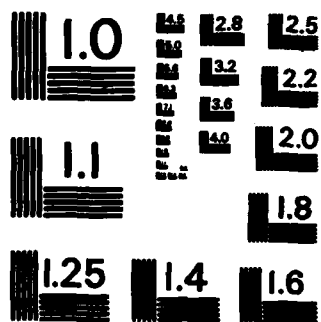
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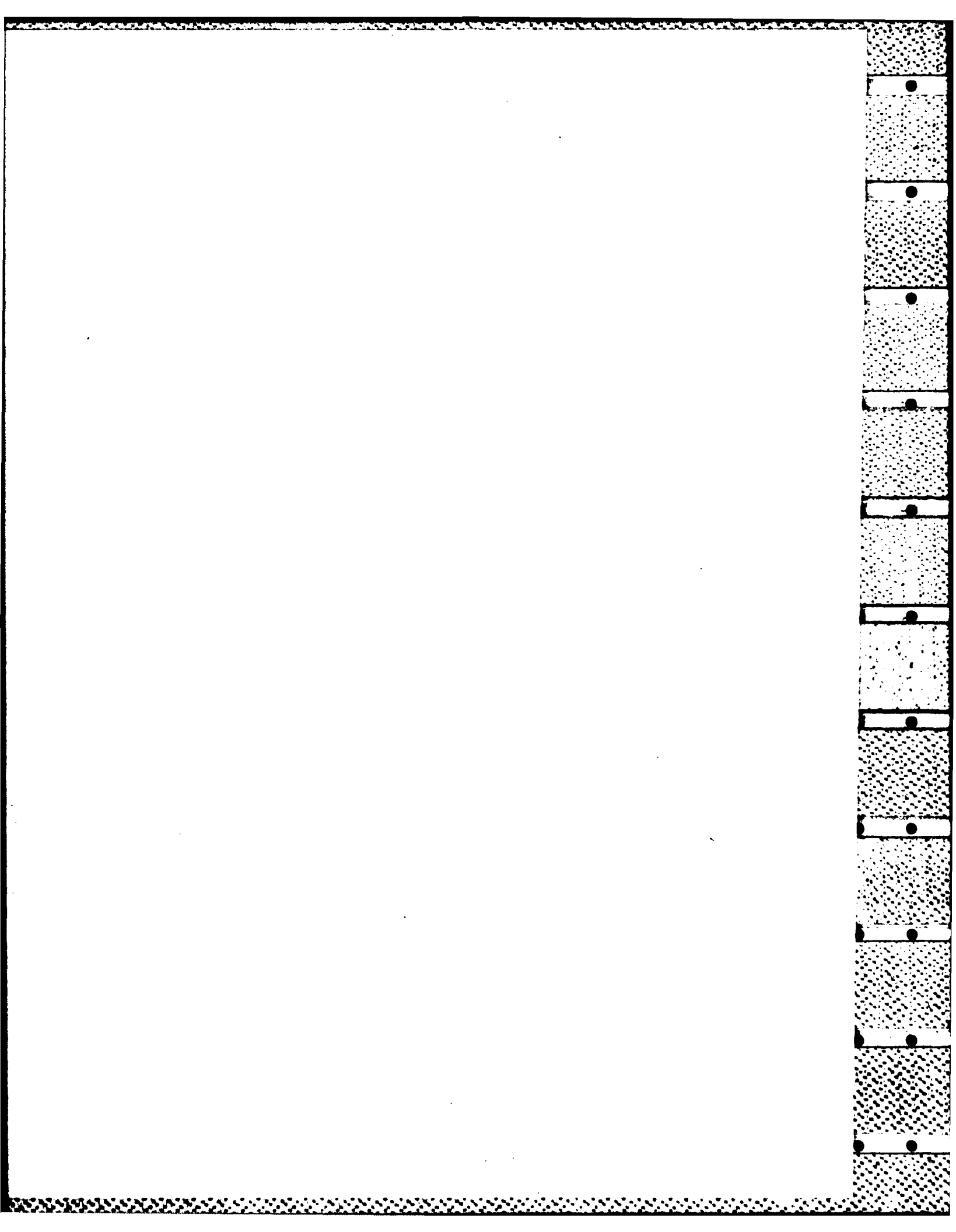
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